

Penn Reels

CATALOG No. 17

with

INSTRUCTION MANUAL

and

REPAIR PARTS LIST

PENN FISHING TACKLE MFG. CO.

PHILADELPHIA 32, PA.

PRINTED IN U.S.A.

CONTENT

SPORT FISHING

TROLLING

BOTTOM FISHING

BAY FISHING

SURF FISHING

SURF CASTING

NEW REELS

TAKE-APART REELS

SOLID FRAME REELS

UNIVERSAL STAR DRAG REELS

BAY AND LIGHT TACKLE

NARROW SPOOL—WIRE LINE

DEEP TROLLING—DEEP SEA

SMALL SENATOR REELS

LARGE SENATOR REELS

LEVEL-WIND REELS

ILLUSTRATION OF REEL PARTS

PARTS LISTING

PARTS:

CONSTRUCTION OF REELS

CARE OF REEL

SELECTING TACKLE

HELPFUL TIPS

KNOW YOUR SALT-WATER FISH, ILLUSTRATED

PICTURES OF CATCHES WITH PENN REELS

	Page
The Sea Beckons	2
The Most Ancient Sport	2
Take Your Boy Fishing	2
The Thrills of Game Fishing	2
Illustration Trolling Rigs	2
A Glorious Pastime	3
Illustration, Bottom Fishing Rigs	3
Light Tackle Sport	3
Illustration, Bay Fishing Rigs	3
The Call of the Surf	4
Squidding and Bait Surf Fishing	4
The Surf Reel	4
The Surf Rod	4
The Surf Line	4
Making a Safe End Loop	4
End Tackle and Accessories	4
The Cast	5
Useful Surfing Hints	5
Illustration Surf Rigs	5
Peerless, Sailfisher	6
Squidder	7
Surfmaster, Silver-Beach	8
Beachmaster, Live-Bait Caster	9
Long Beach	10
Delmar, Sea-Boy	12
Baymaster, Bay-Star	12
Super-Mariner	13
Mariner, Angler	14
1/0, 2/0, 3/0	15
4/0, 6/0, 9/0, 10/0, 12/0, 14/0, 16/0	16-17
Peer Senior, Peer Junior	18
.	19
.	20-24
Repair, How to Order, Number and Price, How Sent, Sending Reel to Factory, Oiling System	24
Take-Apart, Other Construction Features	25
Free Spool Clutch, Assembling, Star Drag	25
Convertible Drag, Assembling	25
Senator Star Drag Clutch, Directions for Assembling	26
Air-Brake Spool, Construction of Air-Brake	26
Casting with Synchronized Spool	26
Lubrication, Cleaning, Service, Parts, Line Care	27
Line, Reel, Rod, End Tackle	27
Find Line Capacity of Reel	28
Fisherman's Knots and Hitches, Illustrated	28
How to Tie Leader Wire, Illustrated	28
KNOW YOUR SALT-WATER FISH, ILLUSTRATED	29-31
PICTURES OF CATCHES WITH PENN REELS	32

2/0

Sport Fishing



THE SEA BECKONS

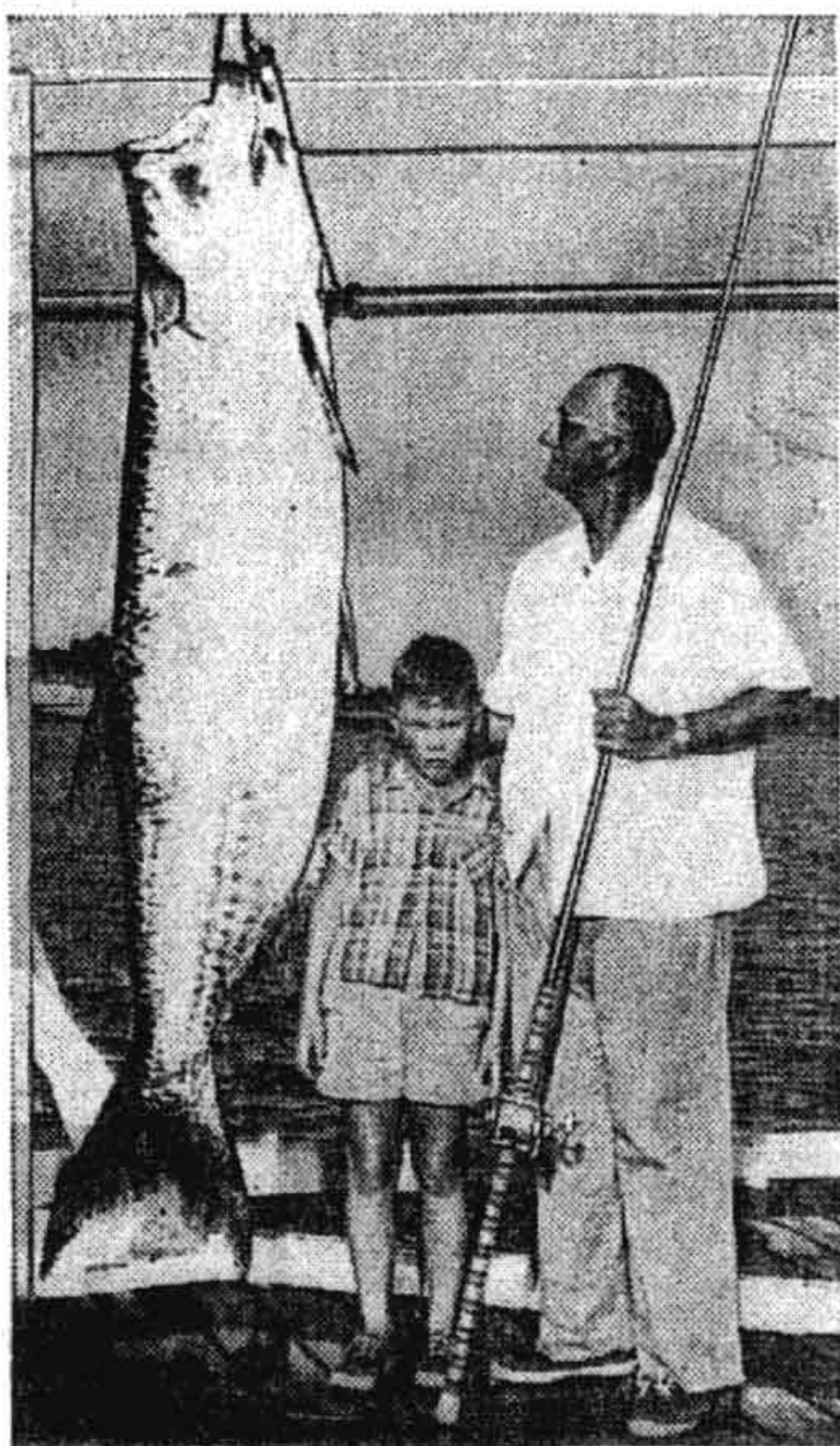
All along the extensive coast line of our continent, countless thousands of anglers enjoy their favorite pastime—fishing. Indeed, our coastal waters offer fishing opportunities unequalled throughout the world. From the small pan fish to giant game fish, from the cold water fish to the exotic tropical species, all roam our territorial waters and furnish exciting and healthful sport. The placid bays and inlets, the roaring surf, the rolling sea, comprise to make an angler's paradise.

THE MOST ANCIENT SPORT

Every red-blooded man likes to fish. This probably dates back to the time when man fished to live and ate his fish raw. Our Mayflower forefathers, who settled at Plymouth in 1620, fished to live and had no qualms about eating the lowly codling, and their descendants later made the codfish their State's seal.

Today, the hardy commercial fishermen still fish to live, but many more fishermen live to fish for the sport of it, the myriad of sportsmen who would rather fish than eat—it's their sport, it's our sport—we "love" it.

"TAKE YOUR BOY FISHING" (and Wife and Daughter too)



"A Boy and His Dad"*

A boy and his dad on a fishing-trip—
There is a glorious fellowship!
Father and son and the open sky
And the white clouds lazily drifting by,
And the laughing stream as it runs along
With the clicking reel like a martial song,
And the father teaching the youngster gay
How to land a fish in the sportsman's way.

Which is happier, man or boy?
The soul of the father is steeped in joy.
For he's finding out, to his heart's delight,
That his son is fit for the future fight.
He is learning the glorious depths of him,
And the thoughts he thinks and his every whim;
And he shall discover, when night comes on,
How close he has grown to his little son.

* "A Boy and His Dad" is from the book COLLECTED VERSE, by Edgar A. Guest; copyright 1934, by The Reilly & Lee Company, Chicago.

Trotting



THE THRILLS OF GAME FISHING

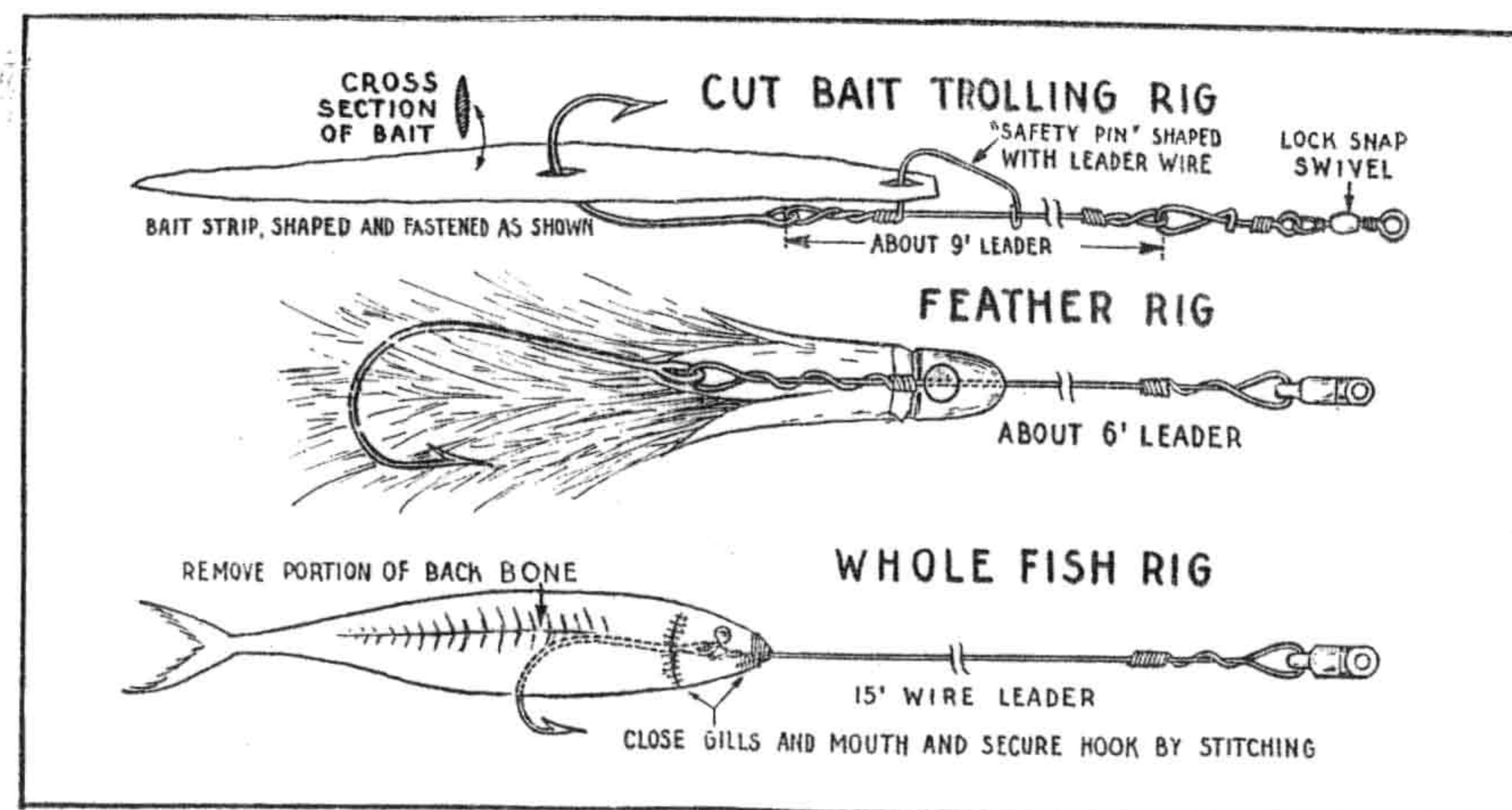
The experiencing of thrills, longed for by the adventurous among us, is becoming ever more limited in our machine age. Yet—the love of adventure is in our blood, ever seeking satisfaction. No other recreational field of endeavor offers the possibilities of Big-Game Fishing for excitement and thrills. The anxiety of awaiting a strike, then, the climactic moment of setting the hook, then, the terrific rushes and surges of a powerful game fish, and, lastly, after a hard give-and-take battle with a giant of the deep, the successful boating of the fish, all

provide never-to-be-forgotten thrills for bored adventurers. Matching your strength and wits against the unceasing struggle of a hooked fish fighting for liberation, will test your mettle, and offer a challenge greater than found in any other sport.

Much of the thrill of the sport is lost by not using proper and well-balanced tackle for the species of game fish sought. The size of the line should be governed by the ethical codes of good sport fishing. The rod should be of proper weight and length to be in accord with the line. The reel should only be large enough to hold the required length of line. The length and size of the leader should be of reasonable dimensions, and when doubling line, its length should not exceed the length of the leader.

The suggestions in the tackle chart, on page 17, are not made as a hard and fast law, but merely to promote ethics of sportsmanship, a measure of uniformity, and full enjoyment of a grand sport. The tackle specifications in this chart are not intended to conflict with any existing rules of fishing clubs, nor to belittle the spirit of the ultra-light tackle enthusiasts. However, too radical a departure from generally accepted average weight of tackle, either on the light or heavy side, is not advisable.

TROLLING RIGS



Bottom Fishing

A GLORIOUS PASTIME



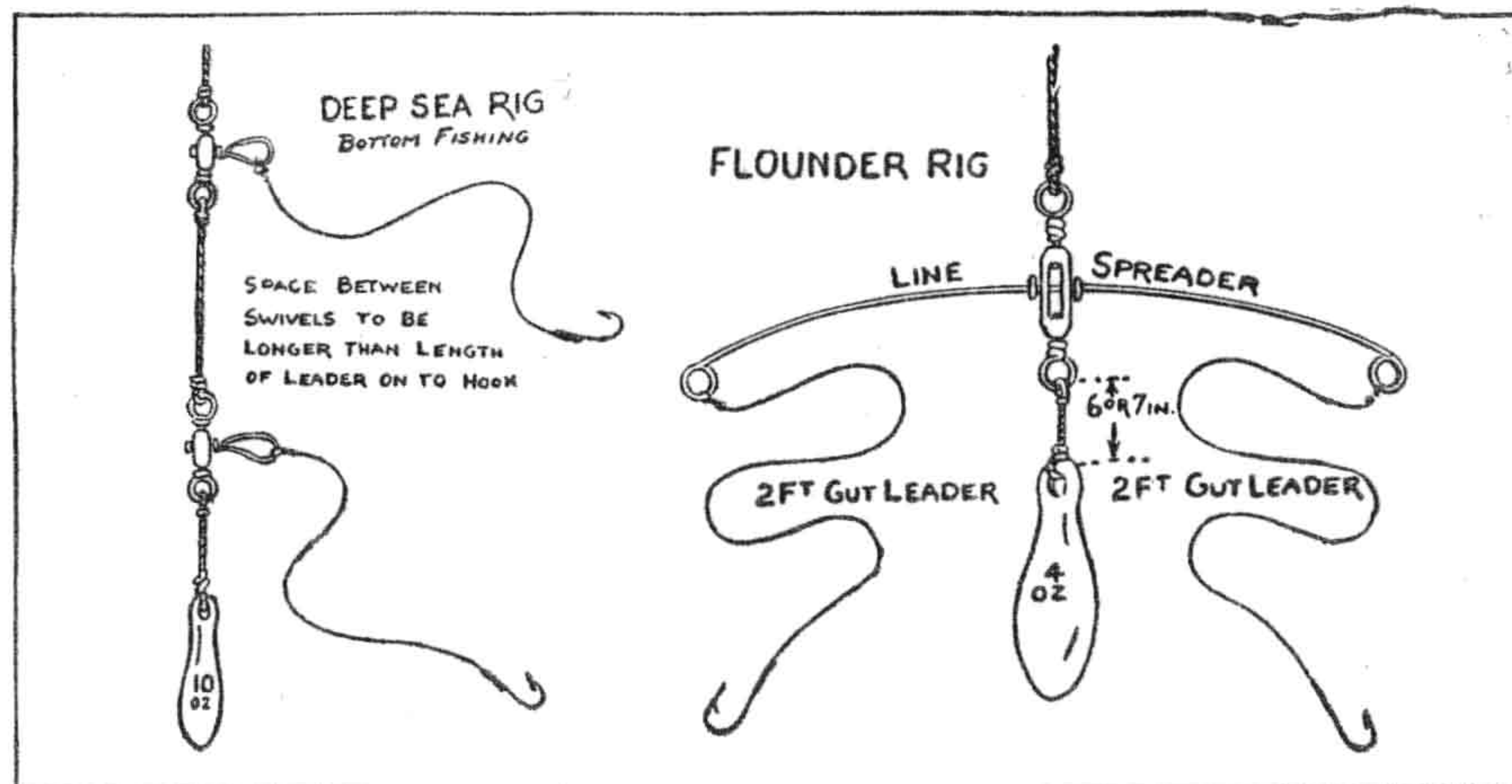
Of the many forms of salt-water fishing, offshore bottom fishing, or so-called deep-sea fishing, attracts by far the greatest number of sportsmen. Boats of all descriptions, from small boats to the big party steamers, take thousands of fishermen to offshore fishing grounds daily, throughout the year, for a day's pleasure fishing, at a nominal cost.

Efficient captains take the fishermen offshore, and anchor their boats at likely spots, the so-called grounds or banks. These are usually areas of gravel bottom, rocks, or wrecks of sunken vessels. Fishing is done by baiting the hooks with clams, crabs, worms, or fish bait, and letting them sink to the bottom. For this reason a lead sinker of sufficient weight, depending on the depth of water and strength of current, is attached to the line.

A good bottom fishing outfit consists of a boat rod, five to six feet overall, a multiplying salt-water reel, 50 to 200 yards line of from 9 to 15 thread, snelled hooks, swivels and sinkers. Below are shown some commonly used bottom rigs.

On pages 10 and 11 are shown reels designed for bottom fishing. They have high gear ratios providing for speedy action, and with oversize torpedo-grip handles will give the fisherman a powerful reel for line retrieve. These reels are also suited for wire line fishing.

BOTTOM FISHING RIGS



Bay Fishing

THE LIGHT TACKLE SPORT



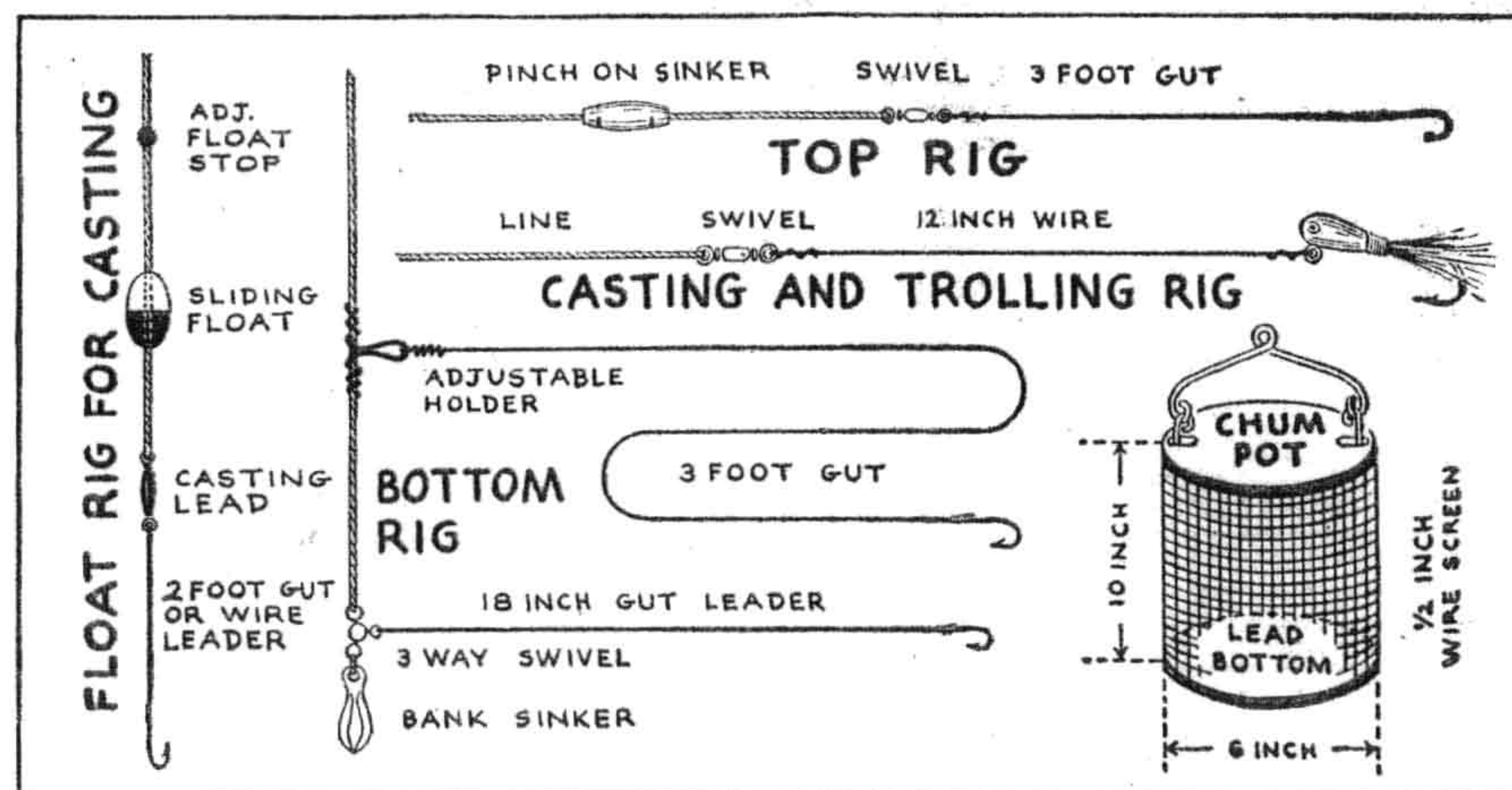
To many anglers, inland waters look fishless, but many thousands enjoy fishing the inlets, bays, channels, and creeks from hired rowboats, outboards, or small inboard motor boats.

In offshore fishing the captain hunts the fish and tells the angler when to drop his line, but in inshore fishing, it is usually the angler's own responsibility to find the good spots, and fish at the right stage of the tide, with suitable baits. Once an angler has acquired the necessary experience of inshore fishing, the waters of bays and inlets remain no longer fishless, but furnish good sport of catching many species of game fish that invade shallow water for feeding and spawning, during many months of the year.

Fishing inland waters is either bottom fishing with natural cut bait, or live bait and sinker, deep fishing with a float set to the required depth, top fishing with live bait on a floating line, or casting and trolling with artificial lures. Bottom fishing is done with the boat anchored or drifting. With the boat anchored, chumming will increase the catch. Cast well away from the boat and make no unnecessary noise. Fish are very wary in shallow water, especially the big ones. Adjust the weight of your sinker to the tidal current, but always use the lightest sinker possible to reach the bottom with a noticeable bump. Continuously lift your rod, and let out a few feet of line, and bump the bottom again. This keeps your bait moving to attract the fish, and also shakes off the bait-stealing crabs. Incoming tides are best, as the fish work with the tide to feed on the small bait which seeks the security of shallow water on the rising tide.

Ideal tackle consists of a light rod of suitable length, a 100 to 150 yard reel and either 6 to 9 thread linen, or 15 to 25 pound test nylon line. As the ideal reels, we recommend our Nos. 180, 185 on page 12, our Nos. 150, 100 on page 8, and our Nos. 9 and 109 level-wind on pages 6 and 18 respectively.

BAY FISHING RIGS



Surf Fishing



THE CALL OF THE SURF

Surf-fishing has a fascination on many. The wild call of the rolling breakers, the murmur or howl of the sea winds, the driven spume and the gull's cry, are irresistible to those bitten with "Surf Fever." The yearning to be down by the ever-pounding, talking, mysterious, age-old surf is ever-present in the breast of the true surfer. No other kind of fishing interests him. The uncertainty of what may possibly take his lure or bait, the long hours of expectant waiting, the exercise of repeated casts, and finally, the excitement of the strike coupled with that of the ensuing battle and successful landing of the fish, bring the fullest enjoyment to the fisherman's heart. Though tired in body, he is refreshed in spirit and soul, for he has communed with nature in his preferred way. He returns to his hearth with a feeling of "All's right with the world."

SQUIDDING AND BAIT-SURF-FISHING

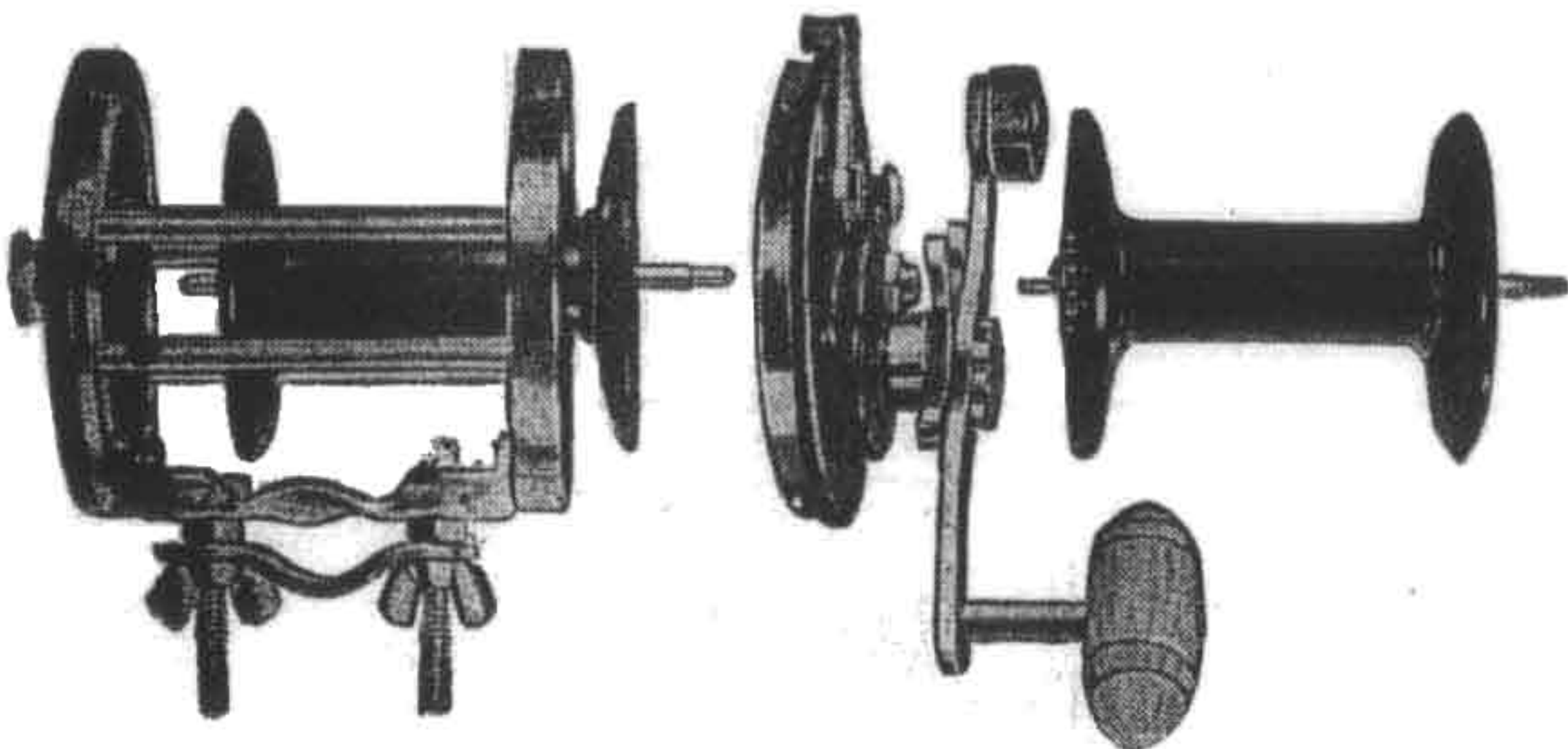
Squidding is the act of fishing with an artificial bait, metal squid, plug, feather, spinner, etc. For squidding, a reel with gear ratio of 3 to 1 or better, is desirable; the rod should be lighter and more flexible than a bait-casting surf rod.

Bait-surf-fishing is practiced on both coasts by many anglers. The most sought-after fish is the magnificent striped bass. Having a well-shaped hard head with a tough big mouth, a rugged, broad green back with well-shaped fins, silvery sides streaked with seven or eight dark longitudinal stripes, a belly as white as snow, this fish is rated as the outstanding sport fish by many surf fishermen.

Other species caught in the surf are weakfish, blues, croakers, kingfish, channel bass, drum, kelp bass, white sea bass, corbina, sheepshead, etc. Surf fish feed close inshore, where the turbulence of the waters has washed small bait into holes, gulleys, and sloughs. Clams, crabs, mussels, shrimp, squid, worms, eels, spearing, mullet, herring, menhaden, sand eels, whole or cut fish are among the most effective baits.

THE SURF REEL

A reel for surfcasting should preferably be a Take-Apart, for ease of cleaning and spool change. Its capacity should be 200 yards, and gear ratio 3 to 1 or better, for fast retrieve and good control of a hooked fish. The reel spool should be light, for longer casts and less chance for backlash. An extra spool facilitates spool change in case of a broken line or need for one of a different size. A smooth-acting star drag, of sufficient range, is indispensable. All external exposed parts should be protected from the corrosive effect of salt-water by chrome plating. Washing your reel in warm fresh water after use, to remove all traces of salt, then wiping it with an oily cloth, will enhance its looks and add to its life. And don't forget, even the best reel will perform better with the help of a little Penn lube, in the right place.



PENN
"SURFMASTER"
EASY-TAKE-APART
REEL
with
2
INTERCHANGEABLE
SPOOLS

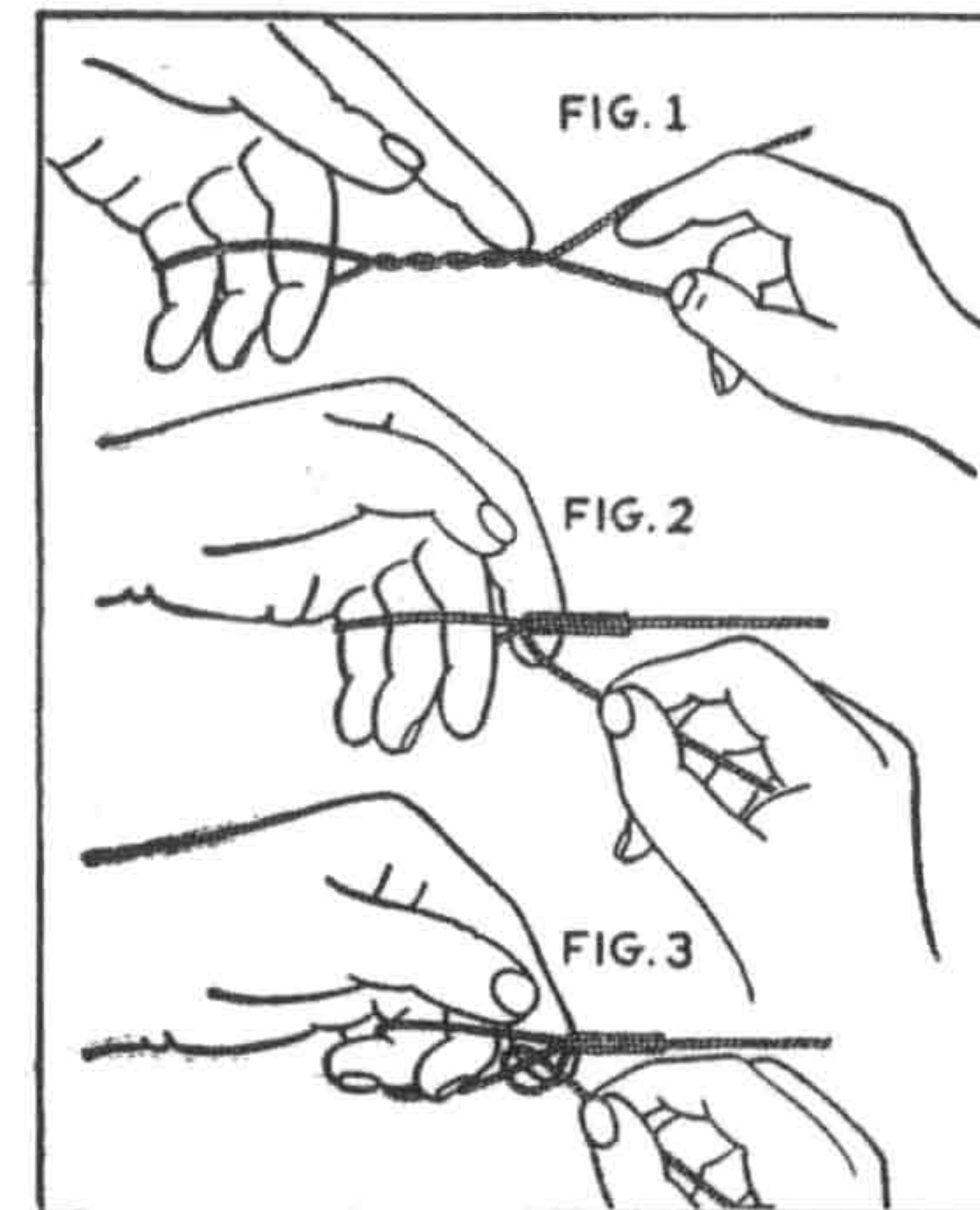
Surf Tackle

THE SURF ROD

Nowadays, most surf-casting rods are made in two pieces, butt and tip, joined by ferrule and reel seat. Their overall lengths vary from 8½ to 11 feet, and weights from 9 to 25 or more ounces. The principle, short angler—shorter rod, tall angler—longer rod, weighty baitcasting—stiffer tip, lighter squidding with light lures—more flexible tip, is a sound criterion. Butts are usually made from hickory and vary from 25 to 30 inches in length, and are fitted with screw-lock reel seats, to hold the reel securely in place.

THE SURF LINE

Most surf anglers use 200 yards of either 9 or 12 thread linen, or 25 or 30 pound test nylon. Lines of that size, though rated to a breaking strain of 30 pounds only, can easily land fish of double that weight, when in good condition and without knots. Knots and chafes will greatly reduce the strength of a line. Never take a chance on old line, you can't have your picture taken with the "one" that got away.



MAKING A SAFE END LOOP

Fasten the standing part of the line, about four feet from the free end, around some object, in order to exert light tension on the line at all times. Now double about 18 inches of line and place three fingers of your left hand inside the loop. With your right hand twist evenly the end around the line four times, and hold the twist with the index finger of your left hand (Fig. 1). Now wind the line tightly back over the twist (Fig. 2). It is important that light tension be kept on the line during this entire operation, so as to hold an even twist. Finish off the end loop with a half-hitch to each strand of the loop, and cut off the excess end.

END TACKLE AND ACCESSORIES

The term end or terminal tackle applies to the part of the tackle which is used at, or near the end of the line. For surf-fishing, the 4 ounce pyramid sinker for sandy bottom, and the same weight in the pear shape for rocky ground, are most popular. For hooks (keep them sharp), the O'Shaughnessy, Sproat and Carlisle, in the varying sizes needed, are those in greatest demand. Good swivels to prevent kinking, and well-made-up leaders, in either wire or gut, are a necessity. Block tin squids and stamped metal lures of the Drone type, of many sizes and patterns are used. These should be bright; the block tin squids should be scraped over their entire surfaces, and their hooks kept needle-sharp. Special double and treble hook rigs for rigging eels and eel skins, a variety of artificial plugs, of either jointed or single body construction, and feathers of varying sizes and colors, as well as the nylon streamer type of lures, should be in the tackle box. When one ordinary feather won't produce satisfactorily, try two or three, made up into a long, thin, single lure. This imitates both spearing and sand eels, and at times proves irresistible. A fish-finder rig, which makes it possible for the baited hook to drift over the ocean bottom, often helps to locate fish. A narrow strip of either forked or oblong-cut piece of pork rind on a lure increases its effectiveness.

Other necessary equipment are hip boots, leather rod butt belt, sand spike, gutting knife and scaler, wire-cutter pliers, vest-pocket-size hone, surf tackle-bag, Penn lube, and a long-visored fishing cap.

Surf Casting

TECHNIQUE OF CASTING

In order to attain proficiency in casting, the co-ordination of the bodily movements involved, must patiently be learned. While physical vigor is necessary, brute strength is not. The proper working together of arms, body and legs, at the direction of your mind, sends the bait out beyond the breakers, where a lunker of a striper may be waiting for it. It is well, in learning how to cast, not to aim for distance, but rather to concentrate on the co-ordination of movements, acquiring the proper form; distance will follow of its own accord after the fundamentals have been mastered. The cast described hereafter is the most generally used, if an overhead or side sweep feels more natural to you, use it, as the basic motions are substantially the same.

Put your left foot forward toward the spot you want to cast, toe set a bit to the right. The right foot is a normal step to the rear and right. You are facing to the right of the target, at an angle of about 45 degrees. Place the right hand up under the reel, with your thumb on the spool. Put the reel in free spool, let out about two feet of line and grasp the lower end of the butt with your left hand. Now twist your body at the hips and, facing backward, bring your rod back as far as possible by extending your right arm and bending your right knee. Your left hand is near the chin, and the tip low to the ground. The left side plate of the reel is facing upwards by a slight twist of your right wrist to the right. From this position, the cast is started by bringing your right hand near the shoulder and your left hand forward. Up to now, the butt is higher than the tip. The power is put into the cast by the simultaneous upward and forward thrust of your right arm and the downward and backward pull of your left arm. During the cast the body is pivoted, and the weight shifted from the right foot to the left foot, as the cast progresses. The rod swings in an arc of about 45 degrees. When the rod is near the vertical, release the reel spool and from then on apply only enough thumb pressure to prevent the over-running of the spool. This proper thumbing might seem difficult to the beginner, but by watching, NOT the sinker but the spool, and thumbing lightly, as soon as loose coils of line develop on the spool, backlash will be eliminated. Follow through with your rod until the tip is in line with the flight of the sinker. You are now facing the target with your body leaning forward and your left knee bent. Your right arm is well extended and your left hand near the left thigh. Hold the rod in this position until the sinker drops, at which time stop the spool entirely to prevent over-running. Shift the reel in gear, reel in all slack line and watch for a strike.

If a backlash occurs, perhaps you forced the cast too much. Straighten out your line and try again with less force. You can cast almost as far with half of your total strength. To eliminate backlash requires the observance of a dozen or more precautions and we are bound to slip up on one of them once in a while, so don't let a backlash discourage you, we all get them.



Casting Tips

USEFUL SURFING HINTS

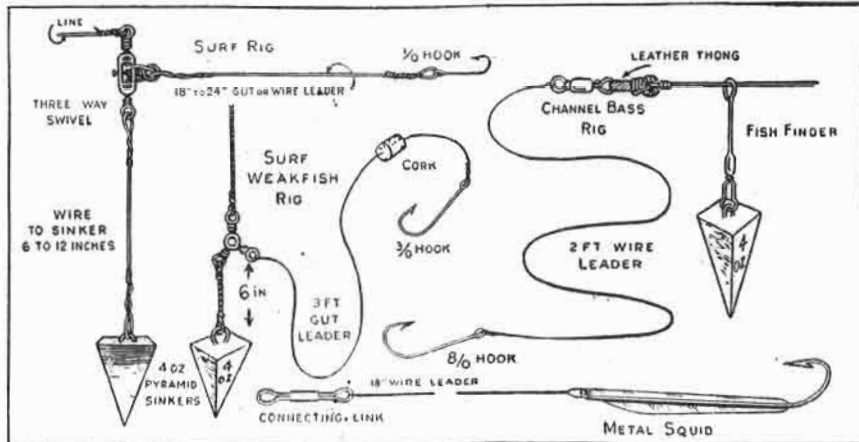
Rod, reel and line should not only be a balanced unit in itself, but should also fit the angler who is going to use it. A tall, brawny surfer of two hundred pounds can easily handle a rod of 18 ounces, 7 foot tip, with 30 inch butt. The leverage made possible by the distance between the hands, plus that 7 foot tip, gets his bait out beyond white water, where bass may be lurking. If your stature is medium or short, a 6 to 6½ foot tip of 14 to 16 ounces, and butt of 24 to 28 inches will suffice. For squidding both tall and short angler will want a more flexible rod, the weights of the lures used, determining how light the outfit should be.

Surf reels are made in 250, 200, 150 and 100 yard sizes. The 200 yard size is the one most generally used and has been found ample. As there is frequent need for spool change and cleaning of a surf reel, a "Take-Apart" is recommended. With this type reel the right side plate is removable by simply turning the knurled take-apart screw (part TA 200) three turns to the left, then rotating the whole plate ¼ inch to the left, to disengage it from the reel frame. Spool may then be changed or the mechanism lubricated. When re-assembling, be sure to screw the take-apart screw into the frame, otherwise the entire right side plate may be lost.

Linen lines in 6, 9 and 12 thread sizes, and nylon in 20, 25, 30 and 35 pound test weights are mostly used, with the 9 thread linen and 30 pound nylon being first choice of the majority of surfers. There is considerable "Stretch" in all nylon. We are happy to note that all of the major manufacturers of nylon lines have the problem of stretch-control well in hand. The angler should also cooperate and relieve the spool pressure after a sizable fish has been caught and at the end of a day's fishing.

To prevent getting a blistered thumb and backlash, always make two or three leisurely casts for the purpose of thoroughly wetting the line, before starting to cast in earnest. Inspect the line for wear and chafe. The last 10 to 15 feet take the most wear and the "regulars" usually cut off that length daily in order not to lose fish. In baitfishing, when a bite is felt, the angler should lower his tip and "stand by" for a few seconds. If, after that the weight of the fish is still on the line, or it moves off strongly, the angler should set the hook firmly, by deliberately raising his rod tip. A large, hooked fish often chooses to run parallel to a stretch of open beach. The angler should follow such a fish and care should be exerted not to attempt to bring him in too fast against the receding undertow. Special precautions must be taken on beaching a lunker of a bass. As the last wave races shoreward, the angler speeds up his reeling, and, walking backward, safely beaches his prize high and dry.

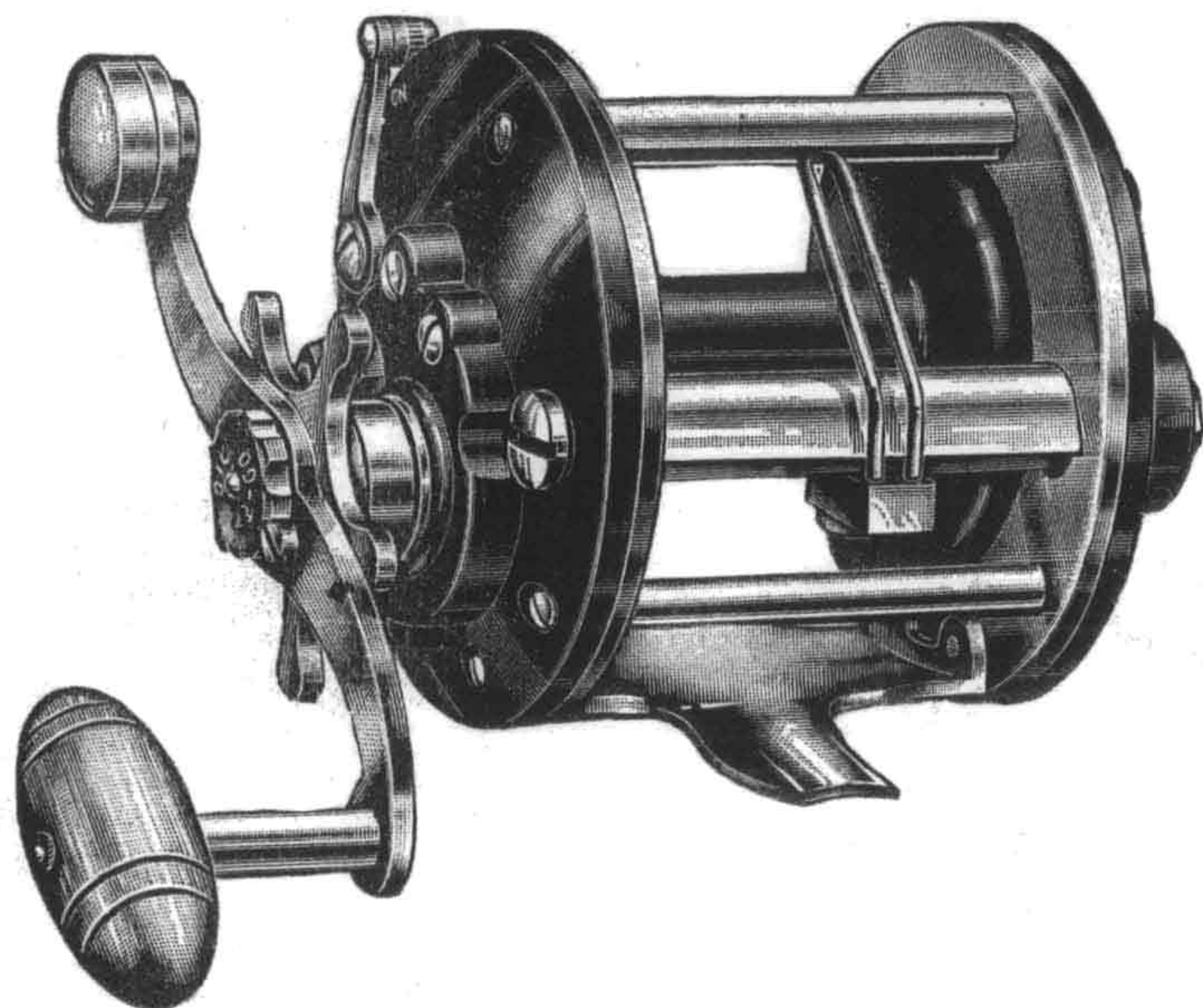
SURF FISHING RIGS



NEW REELS

PENN PEERLESS No. 9

FULL FREE-SPOOL, LEVEL-WIND
IDEAL FOR SALT AND FRESH-WATER



FREE SPOOL STAR DRAG LEVEL-WIND

- | | |
|--|---------------|
| No. 9—2 $\frac{3}{8}$ " Reel Stand for Baitcasting Rods, Plastic Spool | Price \$13.00 |
| No. 9S—2 $\frac{1}{8}$ " Reel Stand for Saltwater Rods, Plastic Spool | Price 13.00 |
| No. 9M—2 $\frac{3}{8}$ " Reel Stand for Baitcasting Rods, Metal Spool | Price 13.50 |
| No. 9MS—2 $\frac{1}{8}$ " Reel Stand for Saltwater Rods, Metal Spool | Price 13.50 |

Left hand models extra \$4.00, add (LH) after reel number.

Line capacity, Plastic Spool, 100 yd. No. 9, weight No. 9S 11 oz.

Line capacity, Metal Spool, 150 yd. No. 9, weight No. 9M 12 oz.

PENN PEERLESS No. 9

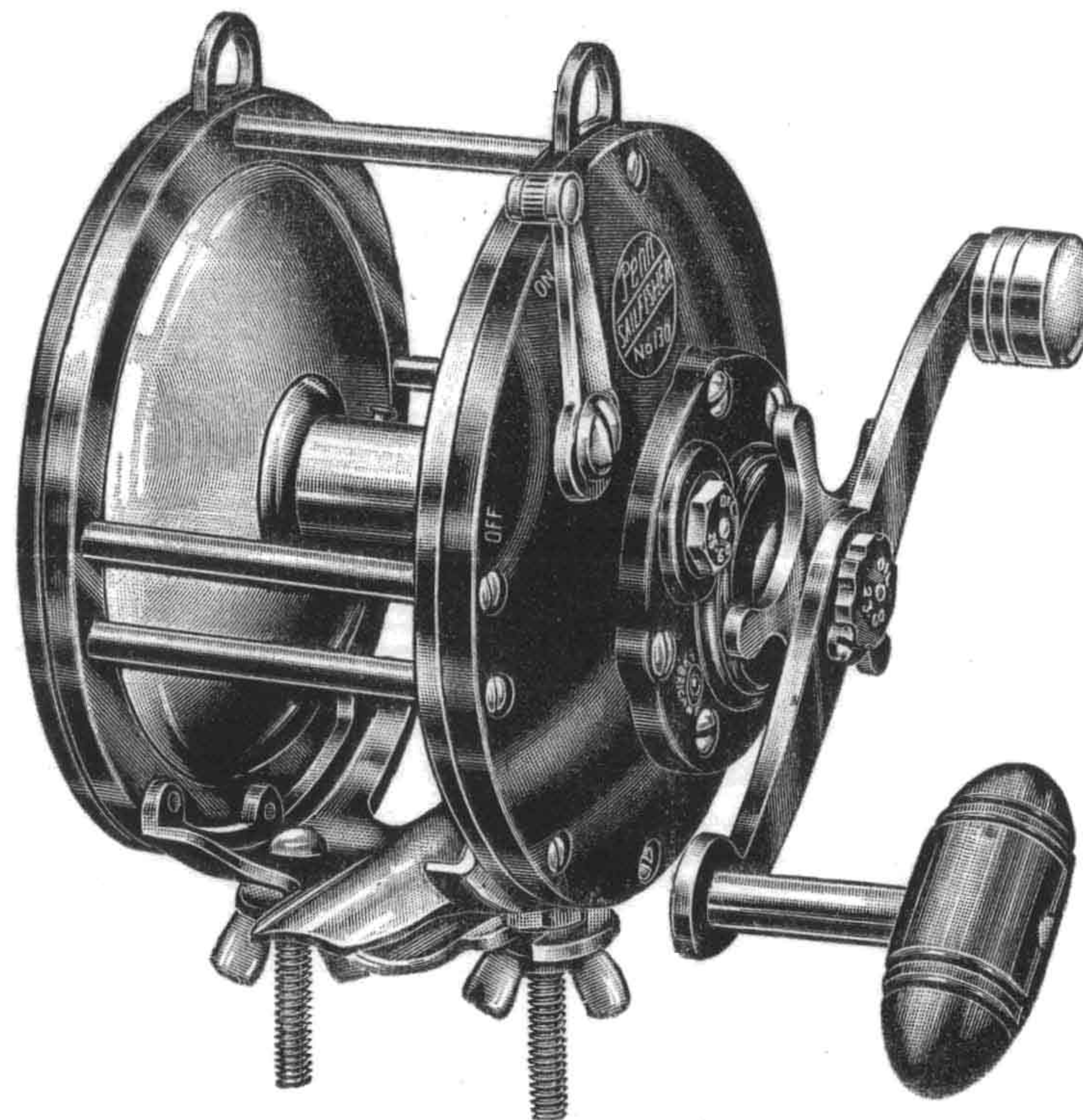
We have made the Peerless No. 9, full free spool, star drag, level-wind reel in response to literally hundreds of requests for such a reel from fishermen all over the country. With this reel, the handle no longer revolves, but remains stationary while a cast is being made.

The Peerless is an ideal reel for light-tackle salt-water, as well as for all-around fresh-water fishing. Its light-weight plastic spool makes possible long and accurate casts with light and medium-weight lures. Its gear ratio is 3 $\frac{3}{4}$ to 1, which, coupled with the smooth action of the powerful star drag, makes for excellent control over a hooked fish. The gear-teeth are spirally cut for strength and smoothness of function. The level-wind is smooth in action. An extra pawl, stored in a magazine on front plate, is furnished with each reel.

WOULD THEY SUIT YOUR
KIND OF FISHING?

PENN SAILFISHER No. 130

FOR LIGHT-TACKLE TROLLING,
BOTTOM, AND SALMON FISHING



FREE SPOOL, STAR DRAG, WITH EXTRA STRONG SPOOL AND CLUTCH

- | | |
|---|---------------|
| No. 130—Metal Spool, with Rod Clamps and Harness Lugs | Price \$19.00 |
|---|---------------|

Line Capacity—400 yd. No. 9, 300 yd. No. 12, 250 yd. No. 15.

Plate diameter 3 $\frac{3}{4}$ ", Spool width 1 $\frac{1}{8}$ ", Weight 24 oz., Gear Ratio 3 to 1.

PENN SAILFISHER No. 130

This reel has been designed to meet the need for an extraordinarily rugged, sturdy reel for light-tackle enthusiasts, for sailfish, marlin, tuna, dolphin, albacore, wahoo, kings, tarpon, etc. It should also prove popular with the hosts of Northwest salmon fishermen, as well as with the members of the deep-sea fraternity in quest of a reel that is extra strong. Its extra heavy, self-reinforced spool will stand gruelling pressure. Its star drag clutch has a wide range of gradation, from little tension to much tension of a compact, solid unit. It is equal to more than ordinary punishment. Gears consist of a chromium-plated steel main gear in mesh with a stainless steel pinion gear. The Sailfisher is equipped with our one-shot lubrication system, rod clamps, harness lugs, and oversize sure-grip torpedo handle. In order to appreciate the fine balance of this reel, atop a rod, one must use it to be convinced.

PENN FISHING TACKLE MFG. CO., 3028 W. HUNTING PARK AVENUE, PHILADELPHIA 32, PA.

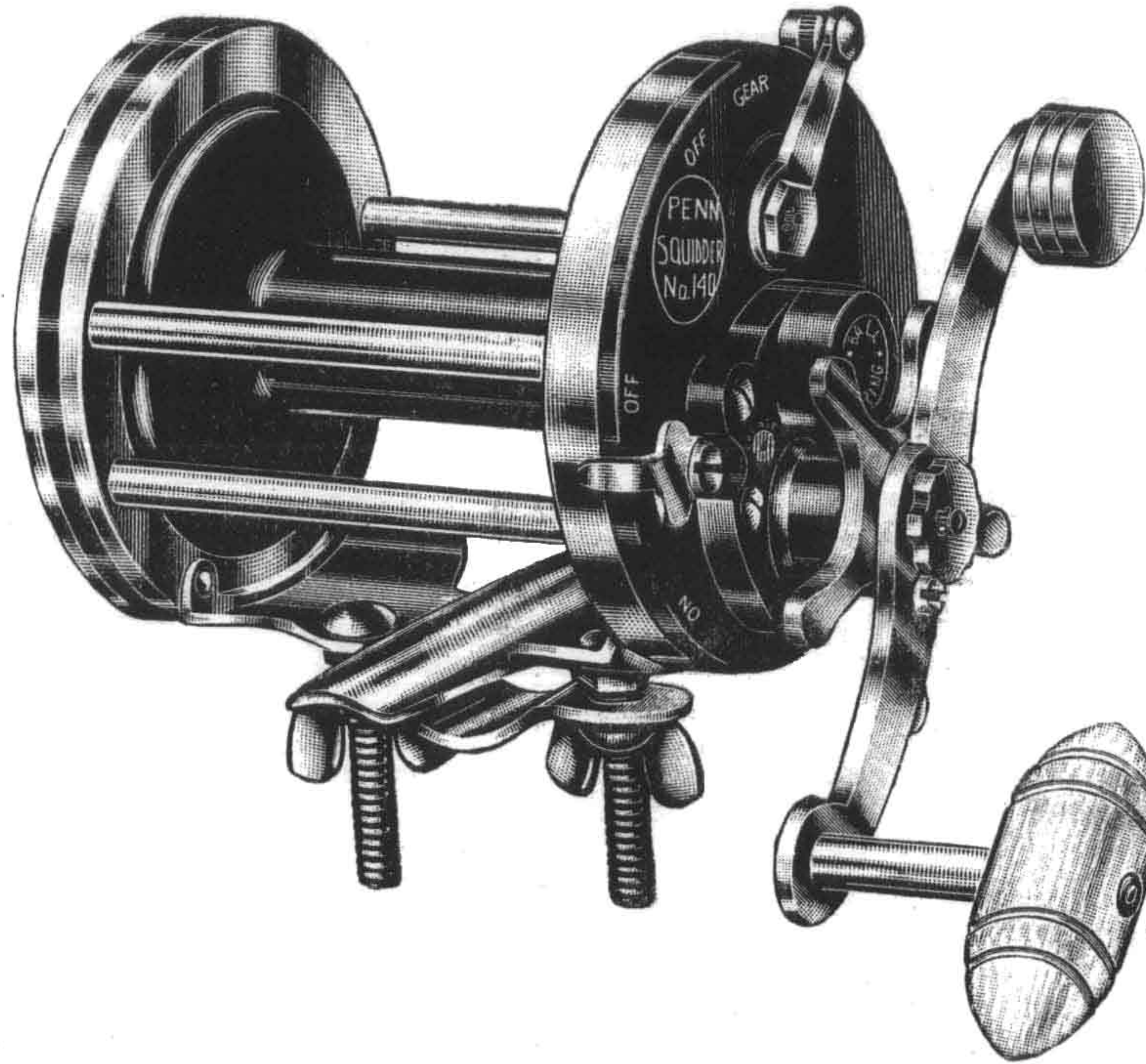
PENN SURF-FISHING AND SQUIDDING REELS

PENN SQUIDDER

BALL-BEARING
WIDE FRAME WITH
ROD CLAMPS
TORPEDO KNOB HANDLE

3 1/3 to 1 GEAR RATIO
QUICK TAKE-APART

AIR-BRAKE FIN SPOOL
FREE SPOOL
CONVERTIBLE STAR DRAG



No. 140—Cap. 200 yards, No. 9 \$25.00

No. 145—Cap. 150 yards, No. 9 24.00

One extra spool furnished with reel. Left hand models (mark L.H. after Reel No.) \$1.00 extra.

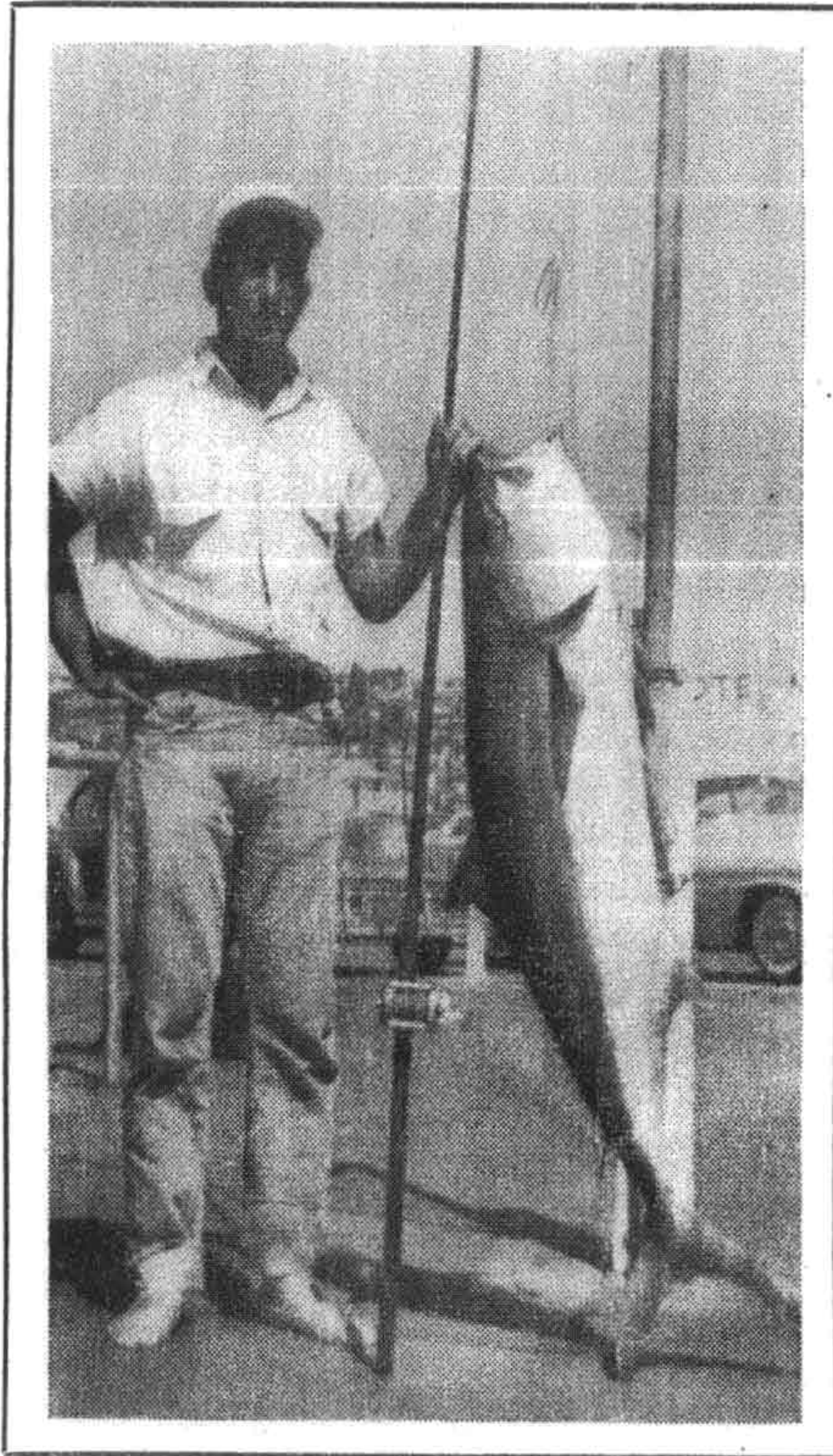
No. 29-140—200 yard spool }with or without air-brake fins \$1.50

No. 29-145—150 yard spool }

When ordering extra spools, specify with or without air-brake fins. Mark (L.H.) after spool number for left hand reels.

The Squidder is the ultimate in surf reel design. It has the casting ability of a tournament reel, yet is built to take the punishment of practical fishing. All external parts are heavily chrome-plated to prevent salt-water corrosion. Frame is light in weight. End plates 2 3/4" in diameter, spool width in 200 yard reel is 2 7/16", in 150 yard reel 2 1/8".

PENN PLASTIC LIGHTWEIGHT SPOOLS ARE EXCELLENT FOR CASTING



Edward McGrath, of Segundo, Calif., had a very lively time for 58 minutes with this 70 pound Yellowtail, which he caught on a fishing jaunt to the Guadalupe Islands, in June, 1952. Its length was 59" overall, and its powerful tail took Ed seven times around his boat, before it was finally boated. Oh yes, the reel—a No. 140 Squidder.



A LEAN MALE BASS

Mr. Thomas Randazzo caught this 39 3/4 pound beauty of a bass on Long Island's beautiful beach. The reel was a No. 140 Squidder, with "Take-Apart," a feature considered indispensable by a real surfer.

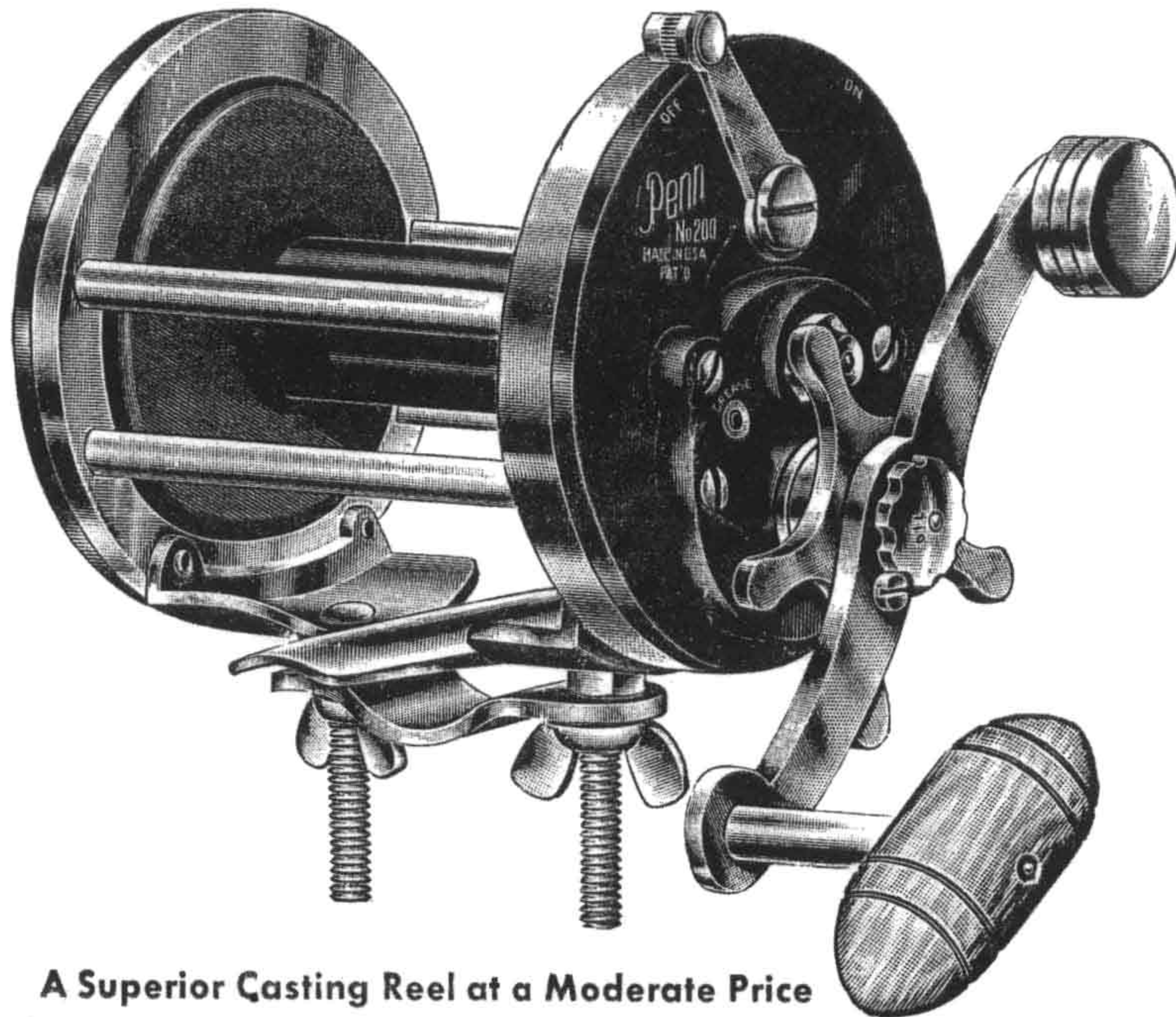
SURF-FISHING AND SQUIDDING TAKE-APART REELS

ALSO SUITABLE FOR PIER, BRIDGE, TRESTLE AND BOAT-FISHING

PENN SURFMASTER

3 to 1 Gear Ratio

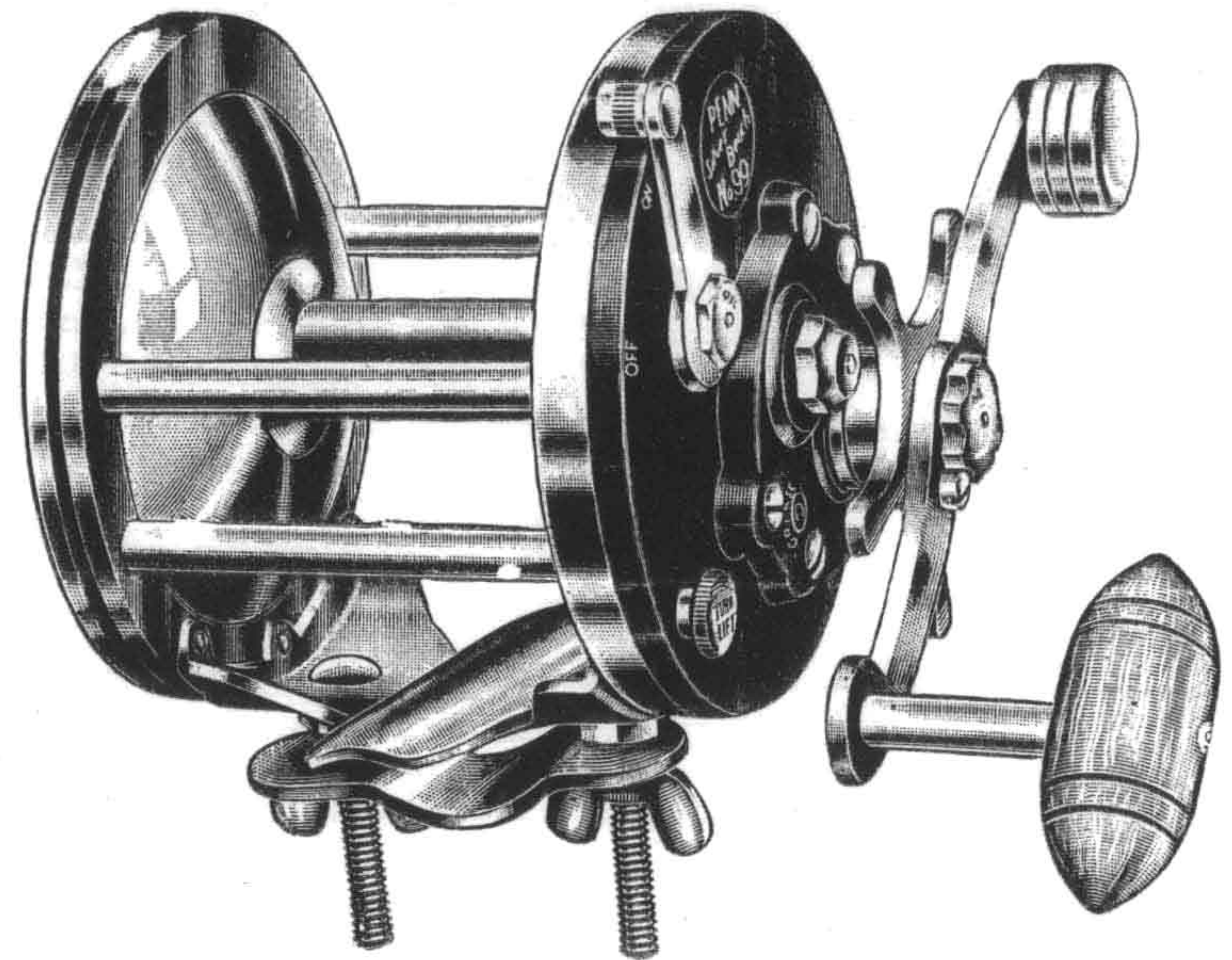
100 to 250 Yd. with 2 Easy-Cast Plastic Spools



PENN SILVER-BEACH

3 to 1 Gear Ratio

200 and 250 Yd., the "3 in 1" Reel



A Superior Casting Reel at a Moderate Price

No. and Cap. of Reel	Type of Reel	Style of Fishing	Plate Diam.	Spool Width	Weight of Reel	Price Each
No. 100—150 yd. No. 6	Star Drag	Extra Light	2 3/4"	1 5/8"	15 1/2 oz.	\$12.50
No. 150—200 yd. No. 6	Star Drag	Light	2 3/4"	2 1/8"	16 1/2 oz.	13.50
No. 200—200 yd. No. 9	Star Drag	Medium	2 3/4"	2 1/8"	17 oz.	14.50
No. 250—200 yd. No. 12	Star Drag	Heavy	3 1/8"	2 1/8"	19 1/2 oz.	15.50

Left hand models (mark L.H.) after reel number \$1.00 extra

Light casting Plastic Spools for all models \$1.20

Reinforced Metal Spools

		Acetylated Metal Spoon		
No. 29M-100	}			
No. 29M-150				\$1.60 ea.
No. 29M-200	}			
No. 29M-250				\$1.80 ea.

The Surfmaster reel is light in weight and speedy in action, an excellent casting reel for bait fishing and squidding. Metal spools may be had for all Surfmaster models, as listed above. Frame is hand polished and chrome plated.

COMBINATION SURF AND BOAT REEL

With 1 Casting and 1 Trolling Spool

Line Cap. with light plastic CASTING Spool 200 yd. No. 9.

Line Cap. with reinforced metal TROLLING Spool 200 yd. No. 12.

No. 99—With Lightweight Plastic and 1 Metal Spool	Price
No. 99LH—Left hand model	\$16.00
	17.00

EXTRA SPOOLS

No. 29—99—Lightweight Plastic Spool	\$ 1.20
No. 29M—99—Heavy-Duty Metal Spool	1.80

The Silver-Beach is the perfect all-around reel for casting, trolling and deep-sea fishing. This model is equipped with two interchangeable spools, giving the fisherman two different line capacities with one reel. With the lightweight plastic spool the reel has a line capacity of 200 yards of No. 9, and is ideal for surf-casting and squidding. One can change in a jiffy to the heavy-duty metal spool. The reel then has a line capacity of 200 yards of No. 12, and is ready for trolling or bottom fishing. Gear ratio, 3 to 1; plate diameter, 3 1/16"; spool width, 2 1/8"; frame is heavily chrome-plated, weight 21 ounces.

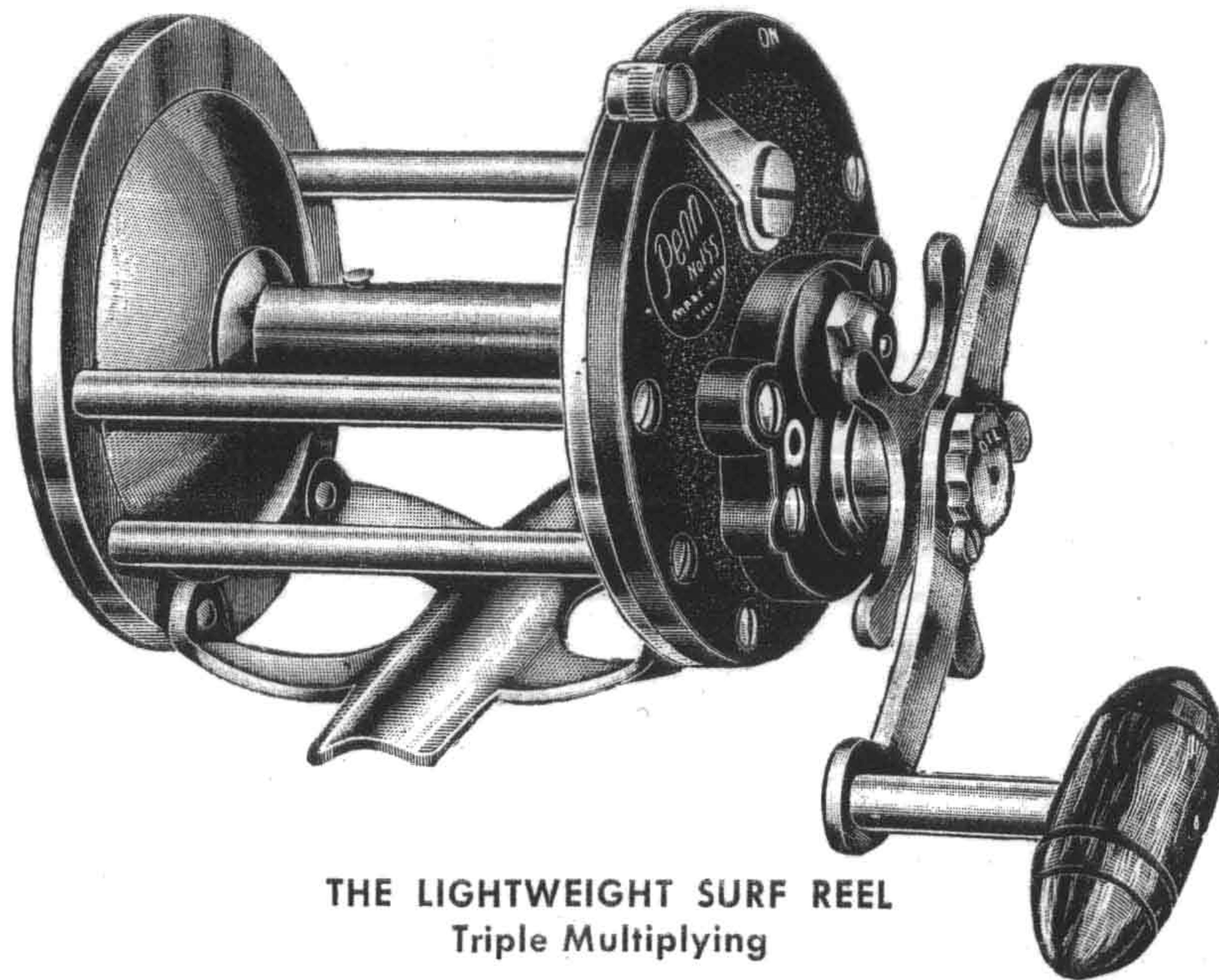
NOTE: ALL LINE CAPACITIES ARE BASED ON 50'S LEA LINEN LINE

SOLID FRAME REELS

SUITABLE FOR SURF, BOAT AND LIVE-BAIT CASTING

PENN BEACHMASTER

150, 200 and 250 Yards



THE LIGHTWEIGHT SURF REEL
Triple Multiplying

- No. 155—Star Drag—Lightweight Spool—cap. 200 yd. No. 9; weight 14 oz.Price \$9.50
 No. 160—Star Drag—Lightweight Spool—cap. 150 yd. No. 9; weight 13½ oz. 8.50
 No. 165—Free Spool—Lightweight Spool—cap. 150 yd. No. 9; weight 13 oz. 6.50

Left hand reels extra \$1.00—mark (LH) after Reel No.

Small, lightweight reel, excellent for surf casting, top and bay fishing. End plates are streamlined, metal bound and beautifully engraved. The lightweight frame is 2¾" in diameter. The spool is light in weight, extra wide, weighs only 2 oz. and gets off to a flying start with less effort, which is very helpful when using light lures. As the arbor of these spools is of greater diameter, it is not necessary to build up the spool with idle filler line which only adds undesirable weight to the spool and impairs the casting ability.

METAL SPOOL MODELS

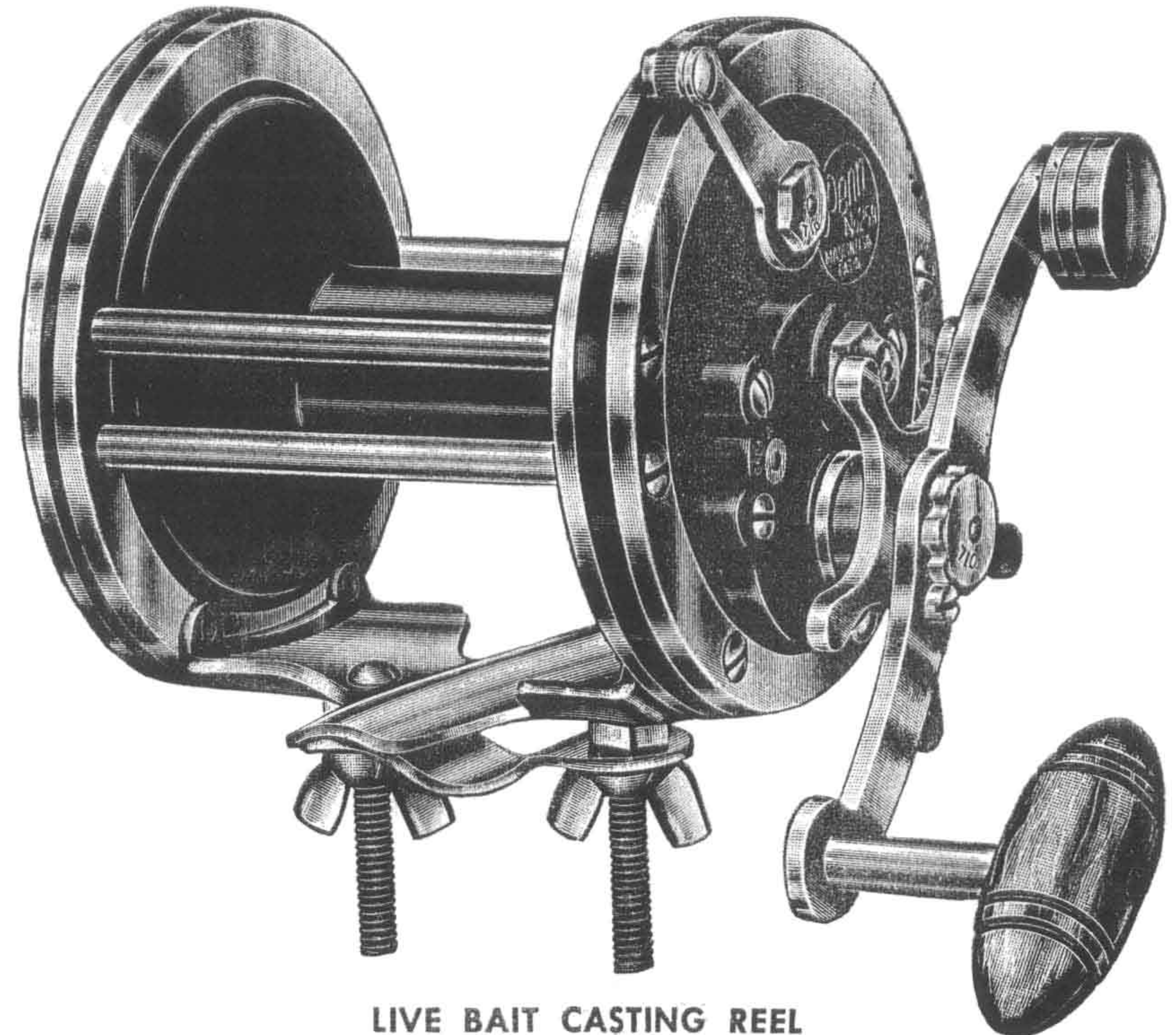
Same as the above, equipped with reinforced metal spools.

- No. 155M—Star Drag—Metal Spool—cap. 250 yd. No. 9; weight 16 oz.Price \$10.00
 No. 160M—Star Drag—Metal Spool—cap. 200 yd. No. 9; weight 15 oz. 9.00
 No. 165M—Free Spool—Metal Spool—cap. 200 yd. No. 9; weight 14 oz. 7.00

Left hand models extra \$1.00—mark (LH) after reel number.

PENN LIVE-BAIT-CASTER

250 and 300 Yards



LIVE BAIT CASTING REEL

- No. 259—Cap. 250 yd. No. 9; weight 19 oz.Price \$14.00
 No. 259M—Cap. 300 yd. No. 9; weight 22 oz. 14.50

Left hand models extra \$1.00—add (LH) after reel number.

These sturdily-built wide-spool reels are especially designed for live-bait casting. The 259 model is equipped with a lightweight spool for smooth easy casting. The 259M is equipped with reinforced metal spool and holds 50 yards additional line, making it also adaptable for trolling. End plates are double metal bound, frame is highly chromium plated. Reels are equipped with triple multiplying non-strip steel gears, free spool clutch, powerful star drag, torpedo handle, rod clamp attachment and one-shot lubrication system.

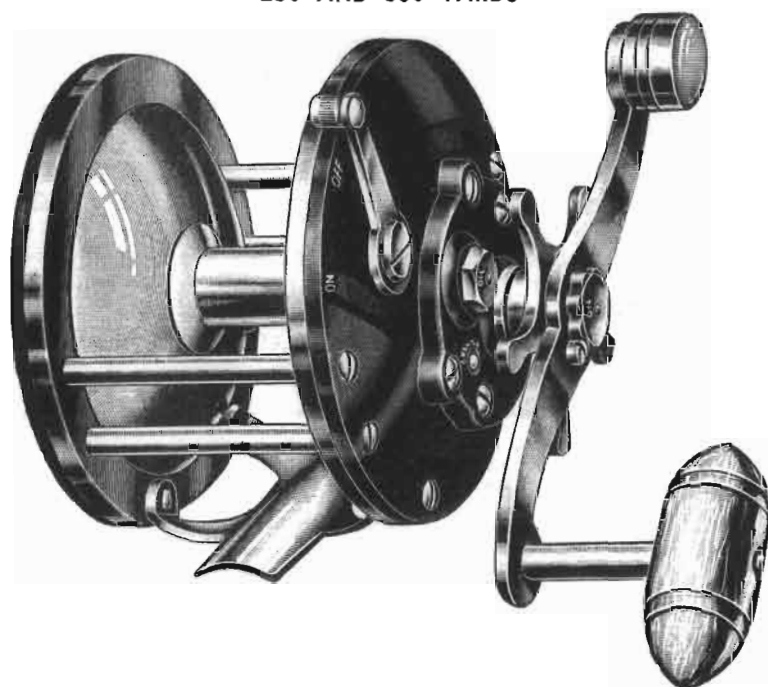
PENN PLASTIC LIGHTWEIGHT SPOOLS DO NOT REQUIRE IDLE FILLER LINE

STURDY UNIVERSAL STAR DRAG REELS

DEEP-SEA BOTTOM FISHING AND TROLLING

PENN LONG BEACH

250 AND 300 YARDS



THE STANDARD STAR DRAG REEL

With Reinforced Metal Spool

No. and Size of Reel	Line Capacity in Yards			Gear Ratio	Plate Diam.	Spool Width	Weight of Reel	Price Each
	No. 9	No. 12	No. 15					
No. 60—250 yd. . .	250	190	150	2½ to 1	3¼"	1½"	17 oz.	\$9.00
No. 65—300 yd. . .	300	225	175	2½ to 1	3¼"	2⅞"	18 oz.	10.00

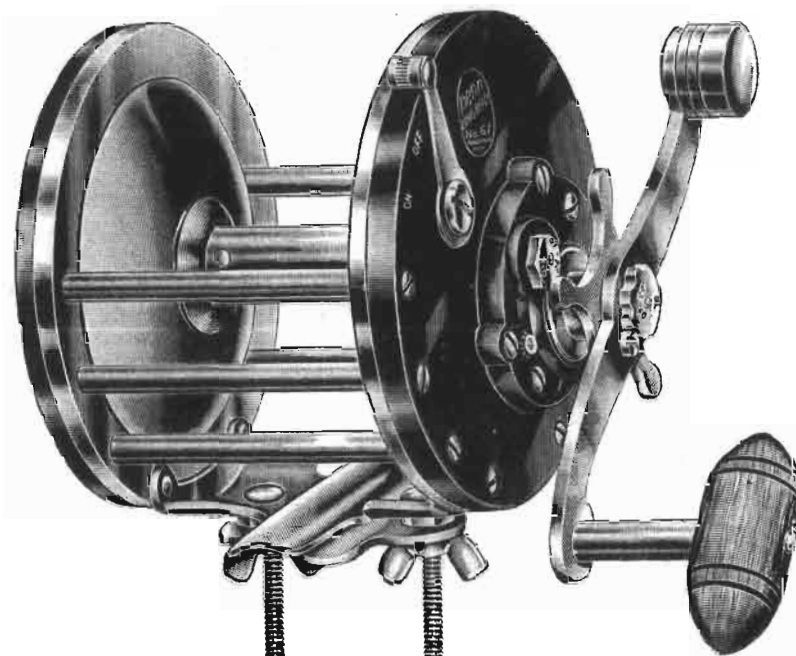
Left hand models \$1.00 extra—mark (LH) after Reel No.

The Long Beach is a universal salt-water reel equipped with our powerful Star Drag. The free spool snap lever is conveniently located on rim and the drag can be applied instantly without danger of stripping gears. Gear train consists of hardened steel driving gear and stainless steel pinion. Handle is fitted with catalin torpedo grip. Our One Shot Lubrication safeguards perfect performance. Metal parts are hand polished and chromium-plated.

Ideal for Fresh-Water Trolling and Still-Fishing

PENN LONG BEACH

400, 500 AND 600 YARDS



LARGE CAPACITY GAME FISH REEL

With Reinforced Metal Spool

No. and Size of Reel	Line Capacity in Yards				Plate Diam.	Spool Width	Weight of Reel	Price Each
	No. 9	No. 12	No. 15	No. 18				
No. 66—400 yd. . .	400	300	250	200	3⅝"	2⅞"	24 oz.	\$13.00
No. 67—500 yd. . .	500	375	300	250	3⅝"	2⅞"	25 oz.	14.50
No. 68—600 yd. . .	600	450	375	300	3⅝"	3"	26 oz.	16.00

Left hand models \$1.00 extra—mark (LH) after Reel No.

The Long Beach is a popular game fish reel equipped with our powerful Star Drag. (Details on page 26.) The free spool snap lever is conveniently located on rim and the drag can be applied instantly without danger of stripping gears. Gear train consists of hardened steel driving gear and stainless steel pinion. Our One Shot Lubrication safeguards perfect performance. Metal parts are hand polished and chromium-plated.

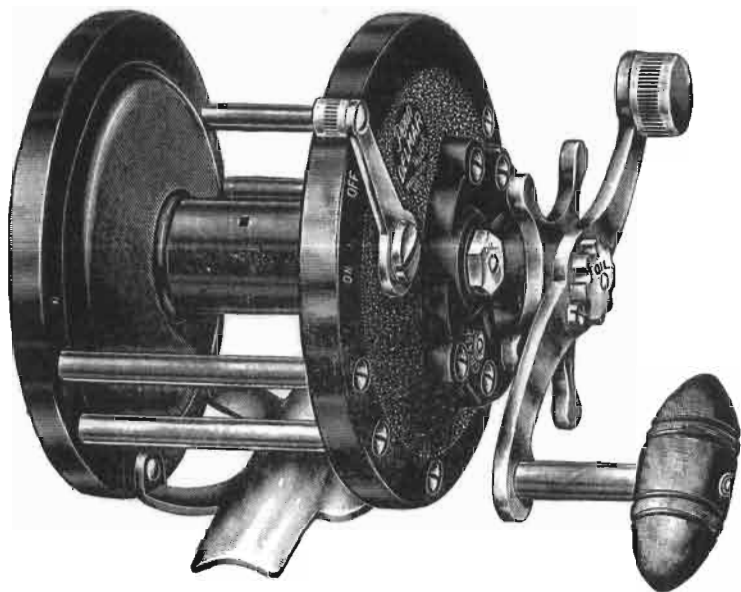
PENN REELS CAN BE LUBRICATED FROM THE OUTSIDE

FOR GENERAL ALL-AROUND FISHING

LIGHT TROLLING, SURF, PIER, DEEP-SEA AND BAY

PENN DELMAR

200 and 250 Yard



UNIVERSAL STAR DRAG REEL

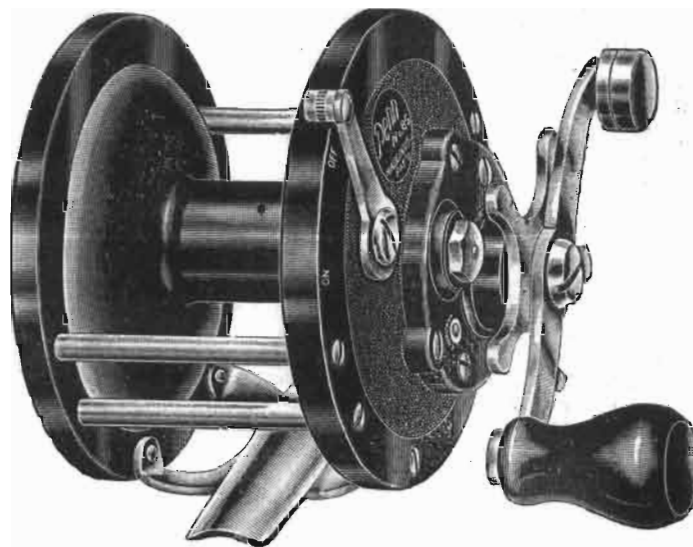
Ideal for Fresh-Water Trolling and Still-Fishing

- No. 285—Lightweight Spool—200 yd. No. 9Price \$7.00
 No. 285M—Metal Spool—250 yd. No. 9 7.50
 Left hand models extra \$1.00—add (LH) after reel number.

Excellent star drag reels at moderate prices. Model 285 equipped with EASY-CAST lightweight spool. Model 285M equipped with reinforced metal spool. Both models have steel gears, torpedo handle, smooth action drag and one-shot lubrication. Metal parts are hand-polished and chrome-plated. The streamlined end plates are $3\frac{1}{4}$ " in diam. and spool width is $1\frac{1}{8}$ ". Weight of 285, $13\frac{1}{2}$ oz.; weight of 285M, 17 oz.

PENN SEA-BOY

200 Yard



POPULAR STAR DRAG REEL

Ideal for Fresh-Water Trolling and Still-Fishing

- No. 85—Cap. 200 yd. No. 9Price \$5.50
 No. 85LH—Left hand model 6.50

A star drag Universal salt water reel of standard size for deep sea, surf, pier, boat and bay fishing. This reel is equipped with our lightweight EASY-CAST spool, which produces long casts and reduces backlashes. In addition, this spool is corrosion proof and a great line saver. Reel is made of genuine bakelite and brass, finished in nickel. Plate diam. $3\frac{1}{4}$ "; spool width $1\frac{1}{8}$ "; weight $13\frac{1}{2}$ ozs. Line capacity 200 yards No. 9 or 150 yards No. 12.

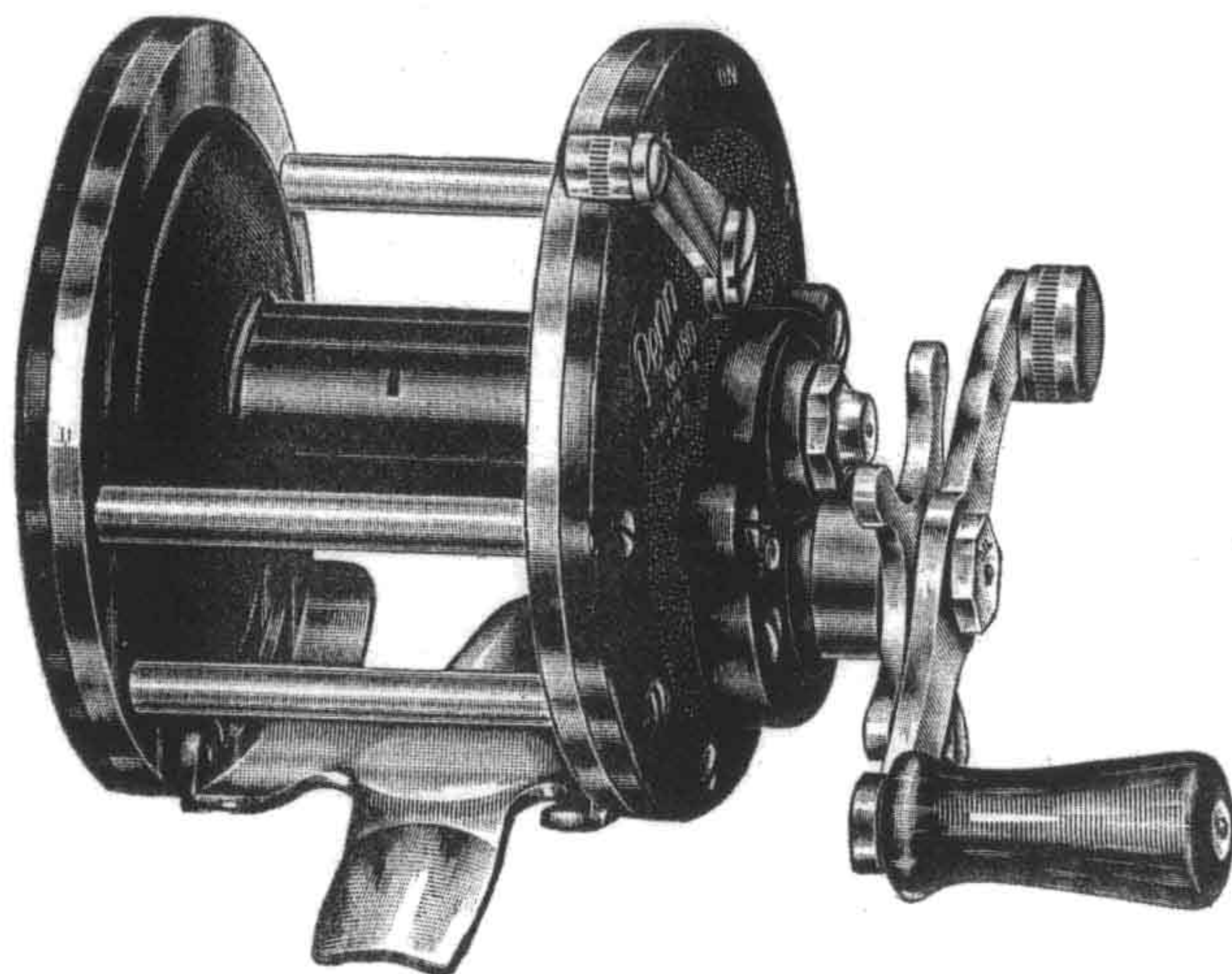
NOTE: ALL LINE CAPACITIES ARE BASED ON 50'S LEA LINEN LINE

FOR BAY AND OTHER LIGHT-TACKLE FISHING

WITH EASY-CAST PLASTIC
and
METAL SPOOLS

PENN BAYMASTER

100 Yard
WITH "EASY-CAST" SPOOL



EXCELLENT REEL FOR FRESH-WATER LAKE TROLLING AND
STILL-FISHING

Made with and without Star Drag

- No. 180**—Star Drag—For Baitcasting Rods with offset reel seatsPrice **\$7.50**
- No. 180S**—Same—with long Stand for Saltwater Rods **7.50**
- No. 185**—Free Spool—For Baitcasting Rods with offset reel seats **6.00**
- No. 185S**—Same—with long Stand for Saltwater Rods **6.00**

Left hand models \$1.00 extra—mark (LH) after reel number.

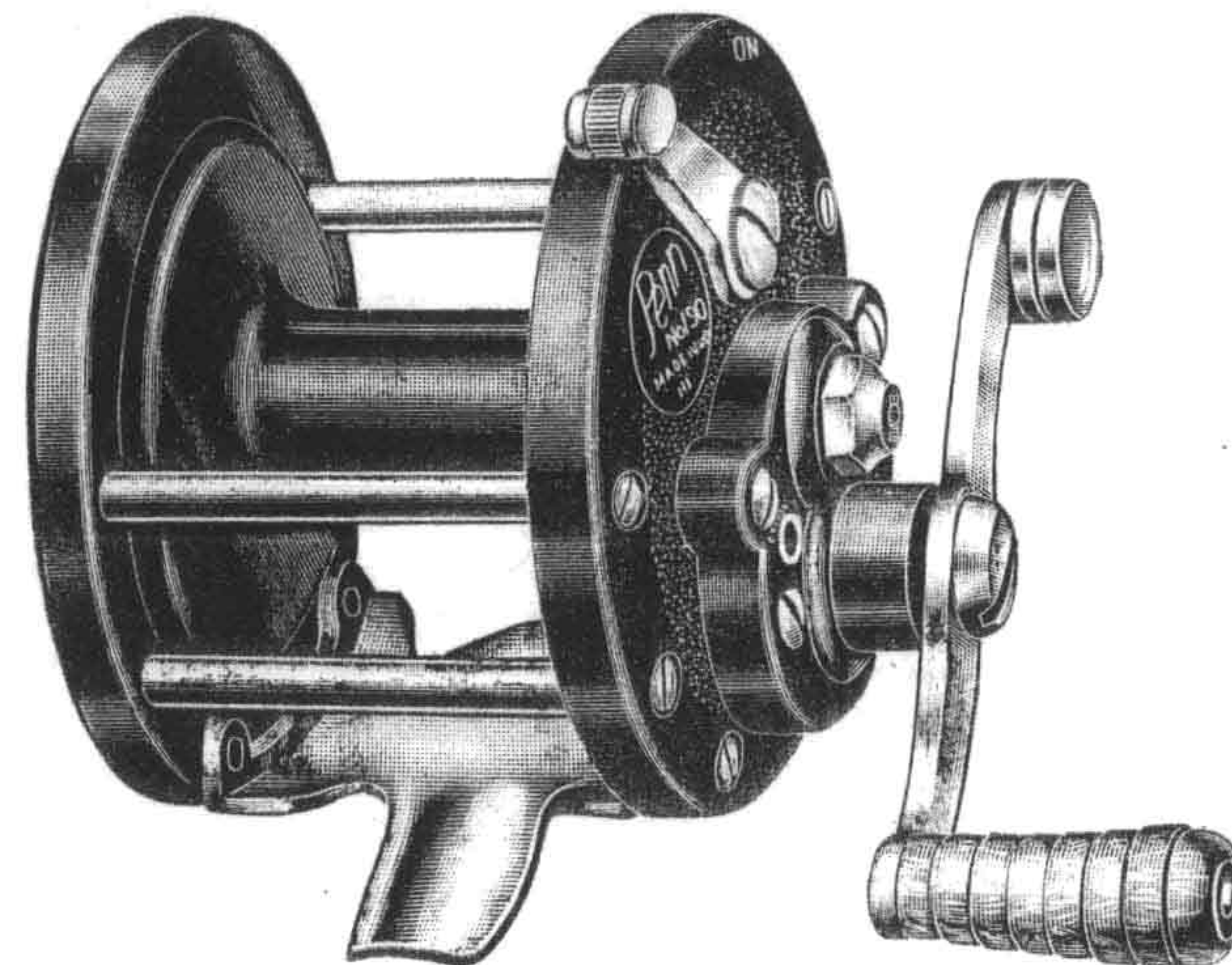
(See NOTE below regarding Reel Stands)

A small lightweight reel that will add greatly to the pleasure of light-tackle fishing. Capacity 100 yards of No. 9 or 150 yards of No. 6 line. Made with and without Star Drag. Adaptable to fresh and salt water rods. Sturdy reel but light in weight. The non-strip gears are triple multiplying for fast action. Equipped with free spool clutch, sliding click, and *One Shot Lubrication*. End plates are streamlined and metal bound. Plate diameter $2\frac{3}{4}$ ", spool width $1\frac{1}{2}$ ". Weight $11\frac{1}{2}$ oz.

NOTE: Reels on this page are made with short ($2\frac{3}{8}$ ") and long ($2\frac{11}{16}$ ") reel stands. Reels No. 180, 185, 190, 180M, 185M, 190M with short stands fit all bait-casting rods with offset reel seats. Reels No. 180S, 185S, 190S, 180MS, 185MS, 190MS with long stand fit all salt-water and fresh-water rods with straight reel seats.

PENN BAY-STAR

100 Yard
WITH "EASY-CAST" SPOOL



POPULAR REEL FOR FRESH-WATER LAKE TROLLING AND
STILL-FISHING

- No. 190**—Free Spool—For Baitcasting Rods with offset reel seatsPrice **\$5.00**
- No. 190S**—Same—with long Stand for Saltwater Rods **5.00**

Left hand models \$1.00 extra—mark (LH) after Reel No.

(See NOTE below regarding Reel Stands)

Ideal reel for light tackle bay fishing. Capacity 100 yards No. 9 line. Reel seat fits fresh and salt-water rods. The spiral cut gears are triple multiplying for speedy action. Free spool clutch is operated by a *snap-lever* on rim. Spool end play can be taken up by an adjustable bearing. A sliding click provides for arresting spool. Reel can be lubricated from the outside. Metal parts are nickel-plated. The small streamlined end plates are beautifully engraved and $2\frac{3}{4}$ " in diameter. Weight 11 oz.

NOTE: ALL LINE CAPACITIES ARE BASED ON 50'S LEA LINEN LINE

NARROW SPOOL, LARGE ARBOR REEL,

with exceptionally fast retrieve for wire line trolling

SAILS FROM BELOW THE RIO GRANDE



Picture at left shows the well-known Chicago sportsman Mr. Le Roy Dorsey, with captain Poncho Moreno and Mr. Gilberto L. Guajardo, proprietor-manager, on the occasion of the opening of the famous Club de Pesca, Acapulca, Mexico, with the first sailfish brought to the club-dock just a few hours after the official inauguration. One of these beauties was caught by Mr. Dorsey with the help of our fast-retrieve No. 49 Super-Mariner reel.

REELS FOR DEEP FISHING

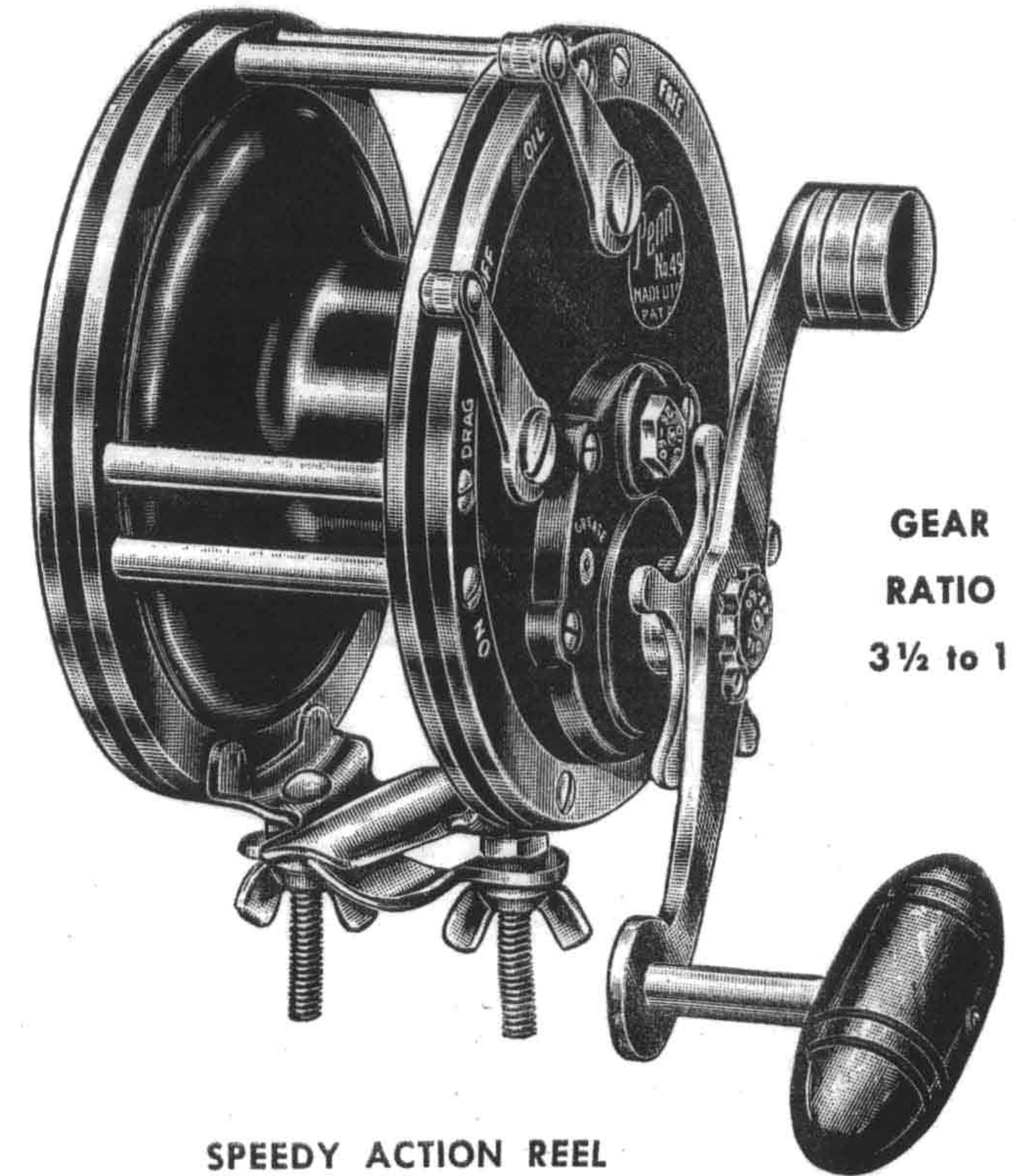
The narrow spool reels illustrated on these pages are of a distinctly different design, and are especially made for wire-line deep trolling. Made in one size only, but in three different styles, to meet all requirements. Linen line capacity is 225 yds. No. 12, or 175 yds. No. 15, or 125 yds. No. 18. Wire line capacity is 200 yds. of No. 10—.024" diameter, or 300 yds. No. 8—.020" diameter, of stainless steel or monel single wire. Twisted and braided metal line capacity is the same as linen line capacity, in the corresponding sizes. The extra large end plates of these reels are 4 1/8" in diameter, and the narrow spool is only 1 5/8" in width. Also, the spool is fitted with an extra large 1 3/4" diameter winding arbor, to prevent the kinking of the wire line. In addition the spool is very light, made of molded plastic, and is 100% corrosion proof, as there is no metal to come in contact with the line. The reels are fast in winding, and one turn of the handle takes in 2 to 3 feet of line. The handles are extra large (5") for easy winding. For deep fishing with wire line, or linen line, these reels are excellent.

No. 49 reel is a star drag reel equipped with our patented convertible star drag and can be fished as a star drag reel, or free spool reel, at the will of the fisherman. (See page 25.) Gear ratio is 3 1/2 to 1 for fast action.

No. 49M equipped with heavy duty metal spool; cap. 250 yds. No. 12.

PENN SUPER-MARINER

IDEAL
FOR
WIRE
LINE
TROLLING



GEAR
RATIO
3 1/2 to 1

SPEEDY ACTION REEL FOR LAKE AND SALMON TROLLING

No. 49—Convertible Star Drag—Plastic Spool; weight 28 oz.Price \$16.00

No. 49M—Convertible Star Drag—Reinforced Metal Spool; weight 32 oz. 17.50

Left hand models extra \$1.00—mark (LH) after reel number.

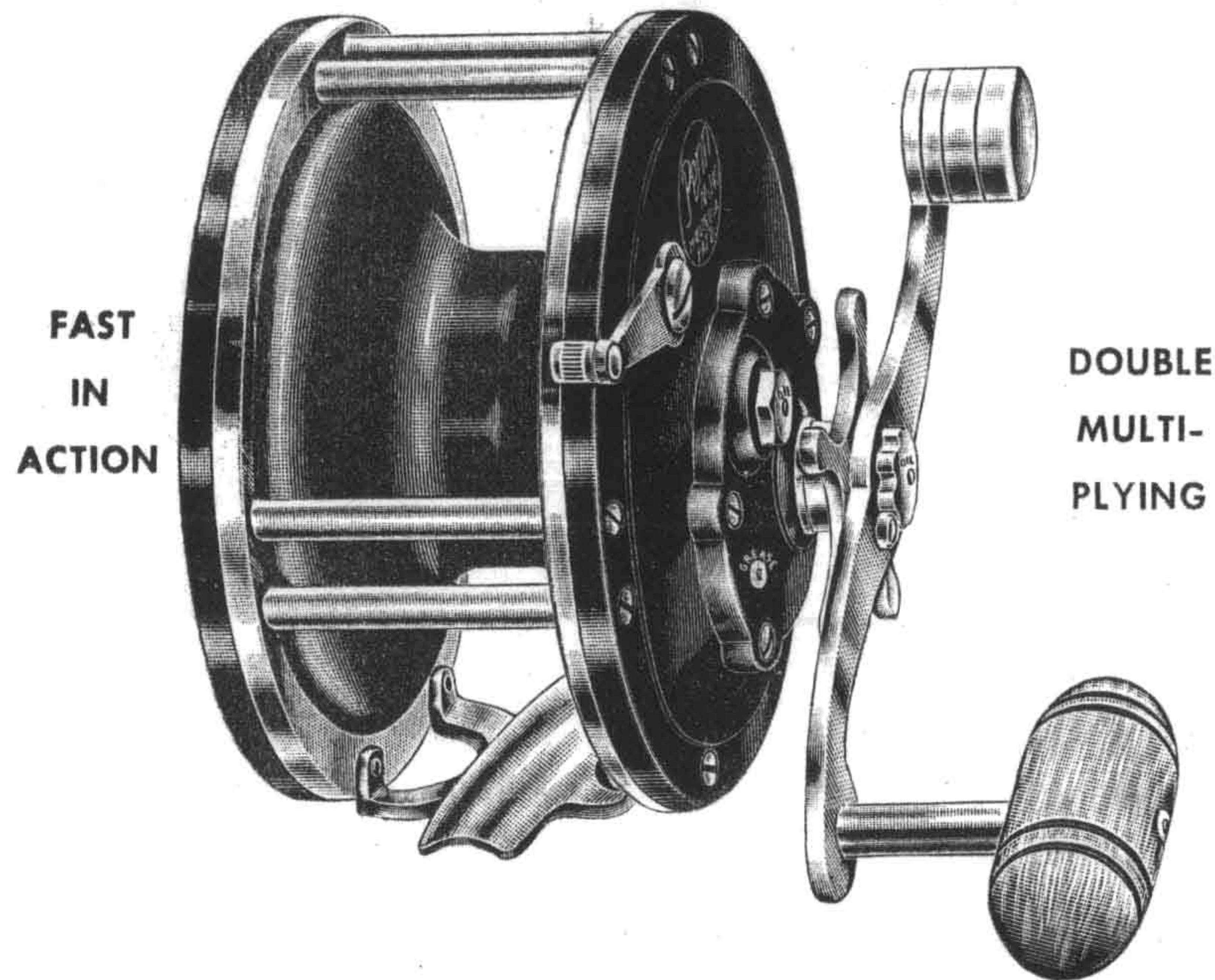
The Nos. 49 and 49M are fast action reels with gear ratio of 3 1/2 to 1 and one turn of the handle winds in 2 1/2 feet of line. These reels are equipped with our patented convertible star drag, and can be fished as a star drag reel or free spool reel. A flip of a lever converts the reel. (See page 25.) Gears are always in mesh, and cannot strip. The oversize handle is fitted with our torpedo grip. End plates are double metal bound. Reel stand is fitted with an attached rod clamp. Metal parts are polished and chromium-plated.

PENN REELS ARE DESIGNED BY FISHERMEN FOR THE FISHERMEN

WIRE LINE DEEP TROLLING AND DEEP SEA FISHING

With Large Arbored Fast Winding Metal or Plastic Spools

PENN MARINER



FAST
IN
ACTION

DOUBLE
MULTI-
PLYING

FAST-ACTION REEL FOR DEEP SEA BOTTOM FISHING

Ideal for Wire Line Lake Trolling

No. 149—Star Drag—double multiplying—Plastic spool; weight 25 oz.Price \$12.00

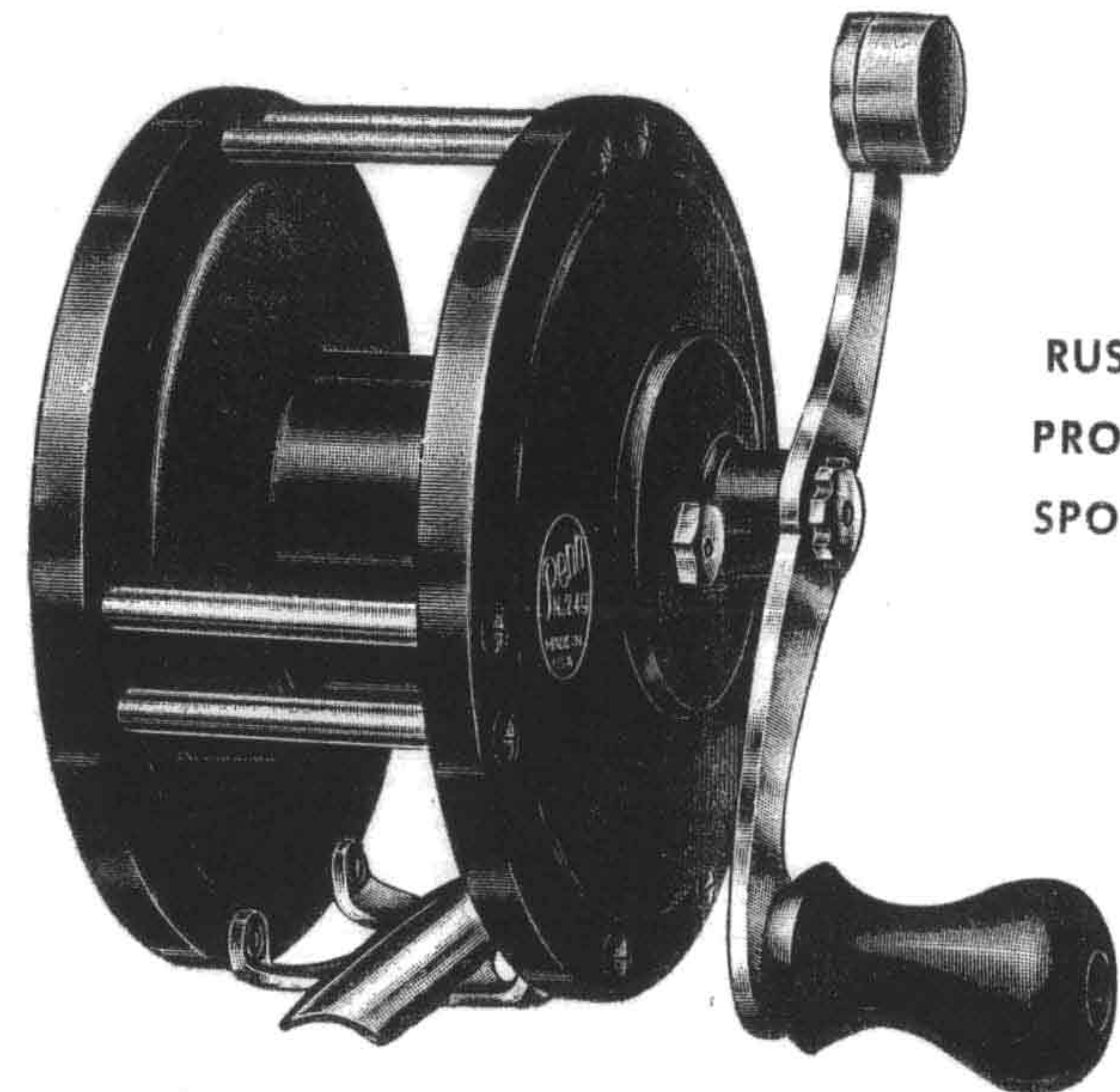
No. 149M—Star Drag—double multiplying—reinforced metal spool; weight 28 oz. ... 13.50
Left hand models extra \$1.00—add (LH) after reel number.

The Nos. 149 and 149M star drag reels are built along the lines of the No. 49's, but are without the star drag throw-off feature. The free spool clutch is operated by a snap lever on the rim. The steel gears are double multiplying for easy winding. The oversize handle is fitted with our slip-proof torpedo grip. One turn of the handle winds in 1½ feet of line due to the large diameter (1¾") arbor. Metal parts are hand polished and chromium-plated.

PENN ANGLER

NEW
IN
DESIGN

RUST-
PROOF
SPOOL



IDEAL FOR WIRE LINE LAKE TROLLING

No. 249—Triple multiplying, Plastic spool onlyPrice \$6.50

Reel can be used left hand.

The No. 249 reel is a fast action reel without the free spool arrangement. Ideal reel for deep lake trolling and deep sea fishing. Spool is light in weight and cannot rust. Handle is oversize. Back plate is fitted with an adjustable click. Frame is reinforced with double pillars. Metal parts are polished and nickel-plated. Weight of reel 18 oz.

LINEN LINE CAPACITY

200 yd. No. 15
250 yd. No. 12

SINGLE STRAND WIRE CAP.

200 yd. .024" diam.
300 yd. .020" diam.

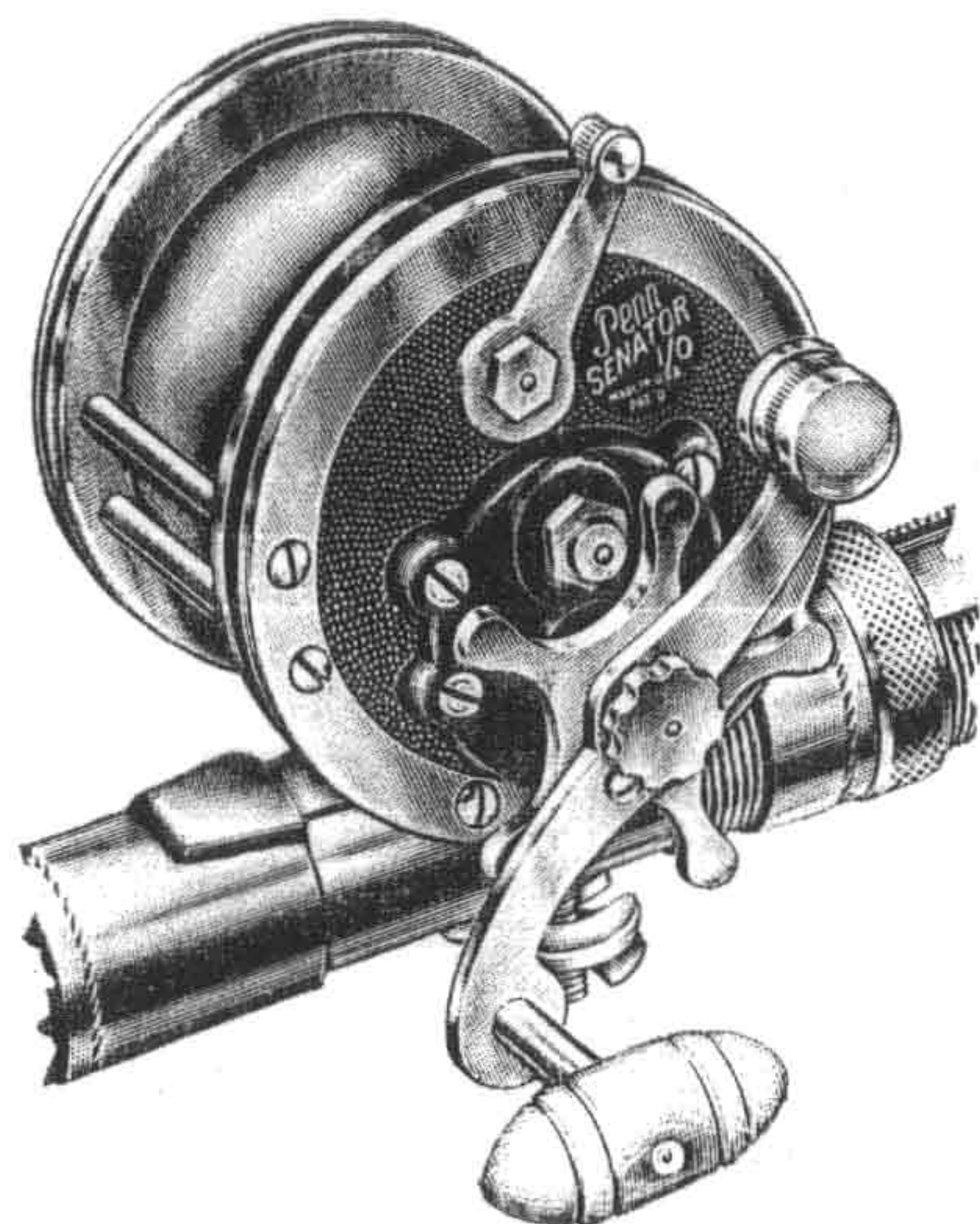
NOTE: ALL LINE CAPACITIES ARE BASED ON 50'S LEA LINEN LINE

Penn SENATOR Reels



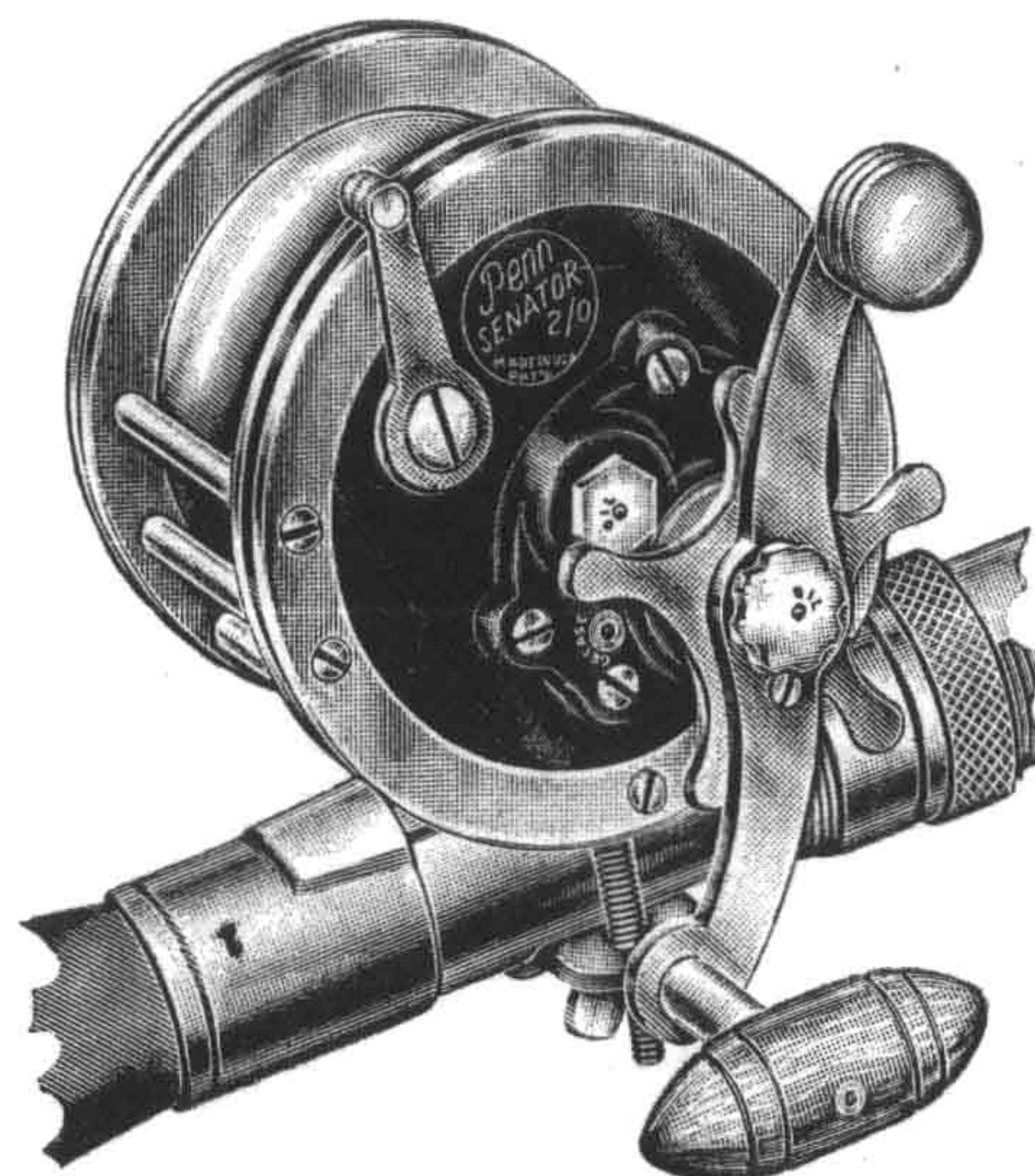
FOR LIGHT-TACKLE TROLLING

4-6 Tackle



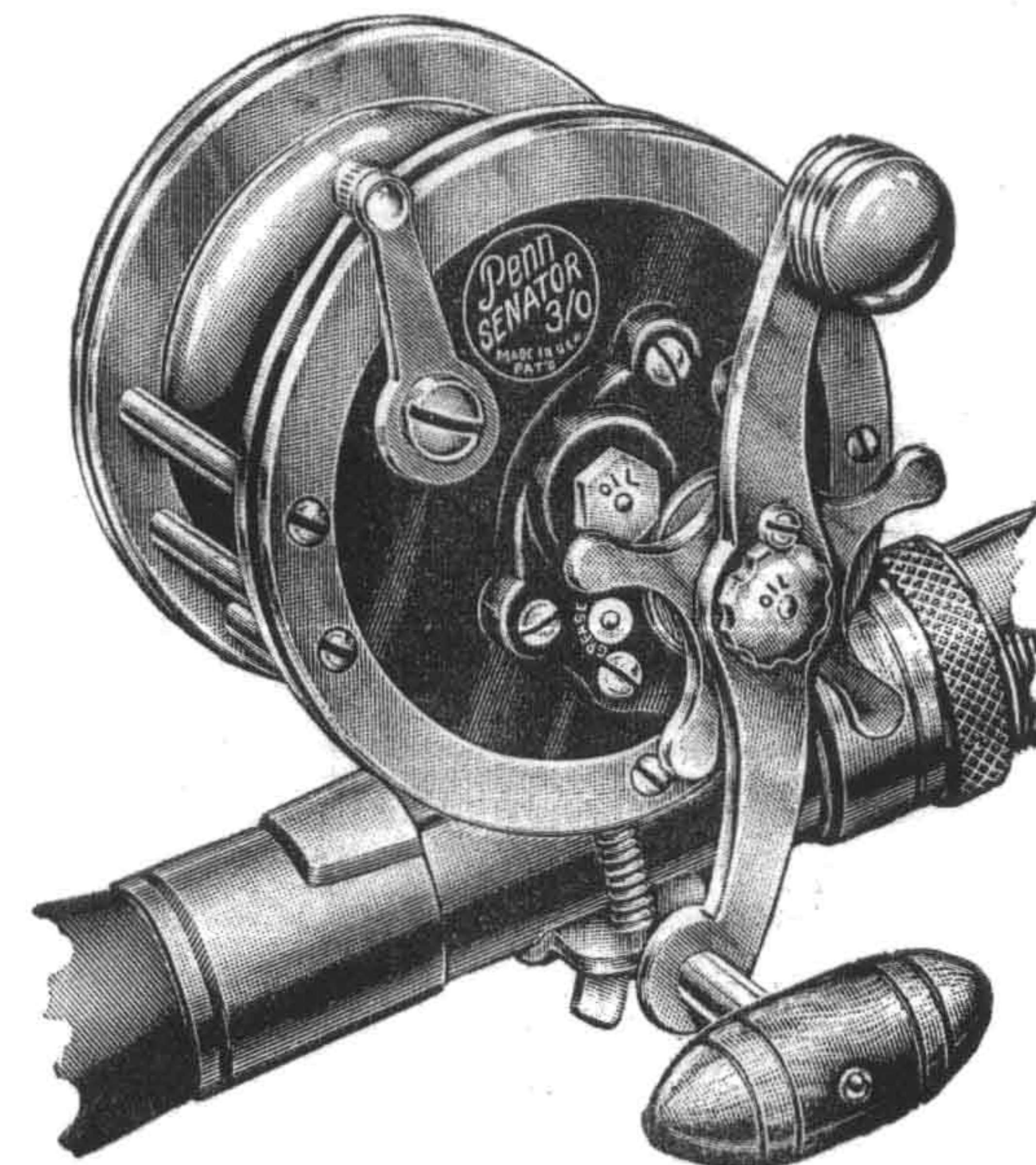
1/0

5-9 Tackle



2/0

6-12 Tackle



3/0

These smaller sizes of our Senator reels are especially designed for light tackle Game Fish trolling. Made in 3 sizes, to meet the requirements of Four-Six, Five-Nine, and Six-Twelve light-tackle fishing. They are equipped with our patented free spool clutch and can be thrown into free spool, or drag, instantly and without danger of stripping gears. The extra heavy drag, of very smooth action, safeguards against breaking of light lines. Gears are made of steel to withstand hardest usage. End plates are re-enforced, with double metal rings. Handles are fitted with our torpedo grip. Reel stand is fitted with an attached rod clamp, to insure rigidity of the reel under all conditions. Frame is hand-polished and chromium-plated—100% rust-proof. Patented One-Shot Lubrication combined with the built-in oil reservoirs, safeguard perfect performance, and prevent freezing of the reel.

PRICES AND SPECIFICATIONS

No. and Size of Reel	Style of Tackle	Plate Diam.	Spool Width	Weight of Reel	Price Each
No. 110—1/0	4- 6	3 1/16"	1 5/8"	18 oz.	\$15.00
No. 111—2/0	5- 9	3 1/4"	1 3/4"	22 oz.	17.50
No. 112—3/0	6-12	3 1/2"	2 1/8"	26 oz.	19.00

Left hand model \$1.00 extra—mark (LH) after reel number.

LINE CAPACITY IN YARDS

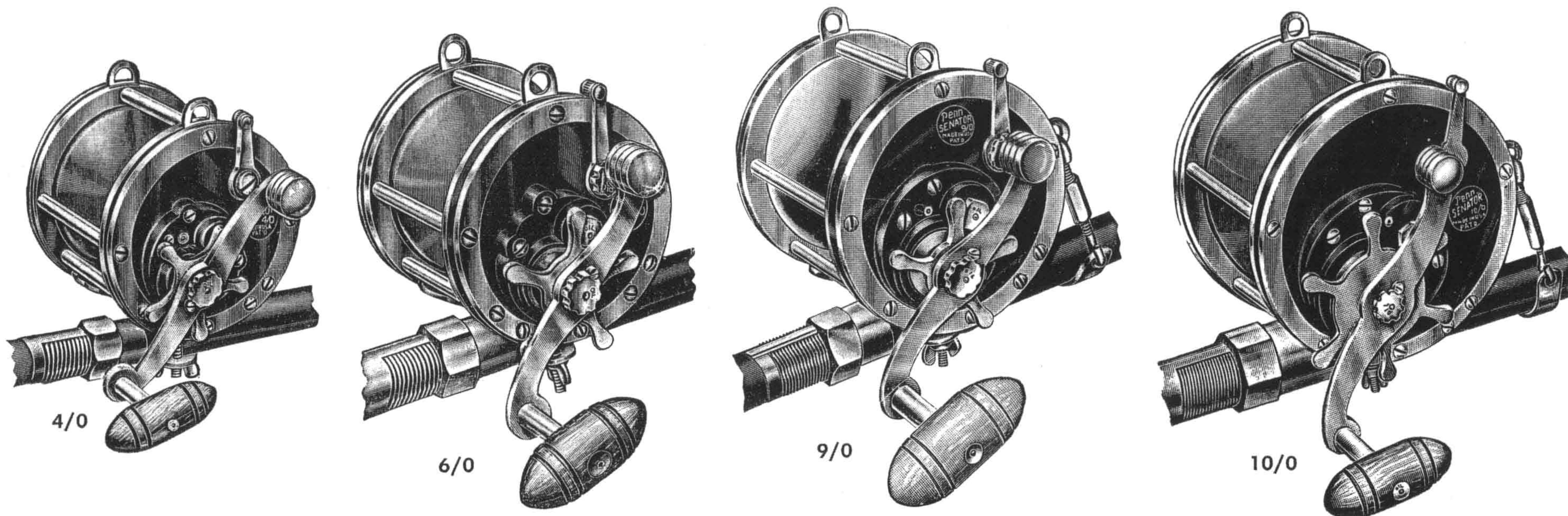
No. and Size of Reel	Size of Line—50's Lea				
	No. 6	No. 9	No. 12	No. 15	No. 18
No. 110—1/0	250	150	125		
No. 111—2/0	350	250	190	150	
No. 112—3/0		400	300	225	200

NOTE: ALL LINE CAPACITIES ARE BASED ON 50'S LEA LINEN LINE



Penn SENATOR Reels

TARPON, SAILFISH, MARLIN, BROADBILL, TUNA



Penn Senator Reels continue to make fishing history. Nearly every big game fish record has been made with the Senator Reel.

On August 3, 1952, Tom Bates, of Talara, Peru, S. A., successfully boated a 1060 pound Black Marlin on one of our 14/0 Penn Senators, thereby setting a new I.G.F.A. World Record.

Charter boat captains realize the importance of having the finest equipment aboard, found that the Senator Reels gave them long and dependable service and have made them standard equipment on their boats.

The Senator line is equipped with our latest design heavy duty spools which are stronger and better than ever before. The powerful smooth drags are made from automobile brake lining which cannot burn up (see drag construction, page 26). The heavy steel driving gears and strong stainless steel pinion gears have proved their ability to stand up against the gamest fighters of the sea. All models are equipped with harness lugs and rod clamps. Forward rod braces are on 9/0, 10/0 and 12/0 sizes, both rod and butt braces on 14/0 and 16/0. The spools of the 14/0 and 16/0 run in ball bearings. Handles are fitted with our powerful torpedo grip; frames are chromium plated. Perfect performance is assured by our patented one-shot lubrication system and built in oil reservoirs to safeguard against freezing.

All these features are combined in Penn Senator Reels at prices within the means of the average fisherman, so all might enjoy this major fishing sport.

PRICES AND

No. of Reel	Size of Reel	Style of Trolling
No. 113	4/0	Light
No. 114	6/0	Light
No. 115	9/0	Medium
No. 116A	10/0	Med. Heavy
No. 116	12/0	Heavy
No. 117	14/0	Ex. Heavy
No. 118	16/0	Ex. Heavy

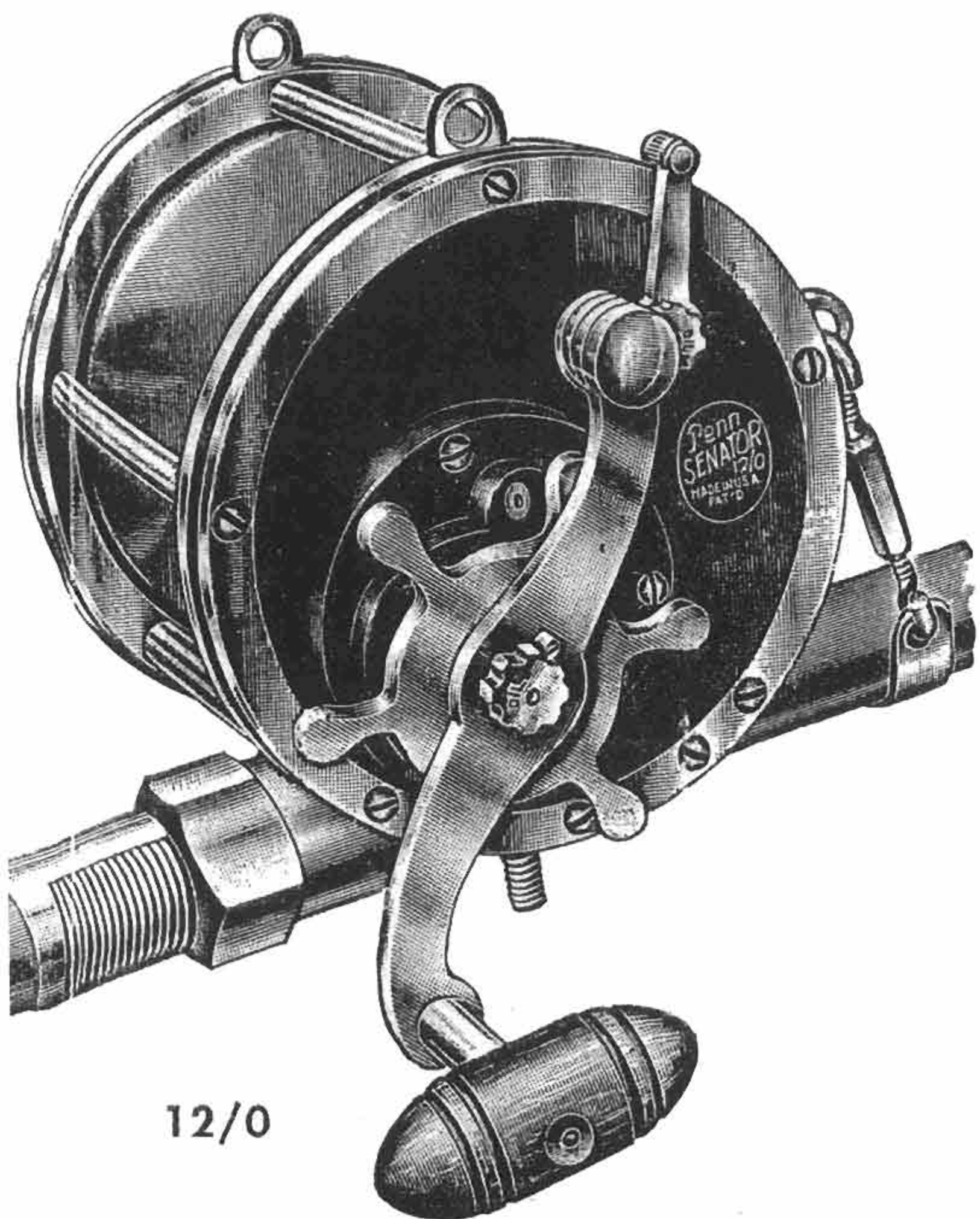
Left hand models at extra cost of \$5.00—mark (LH)

LINE CAPACITY

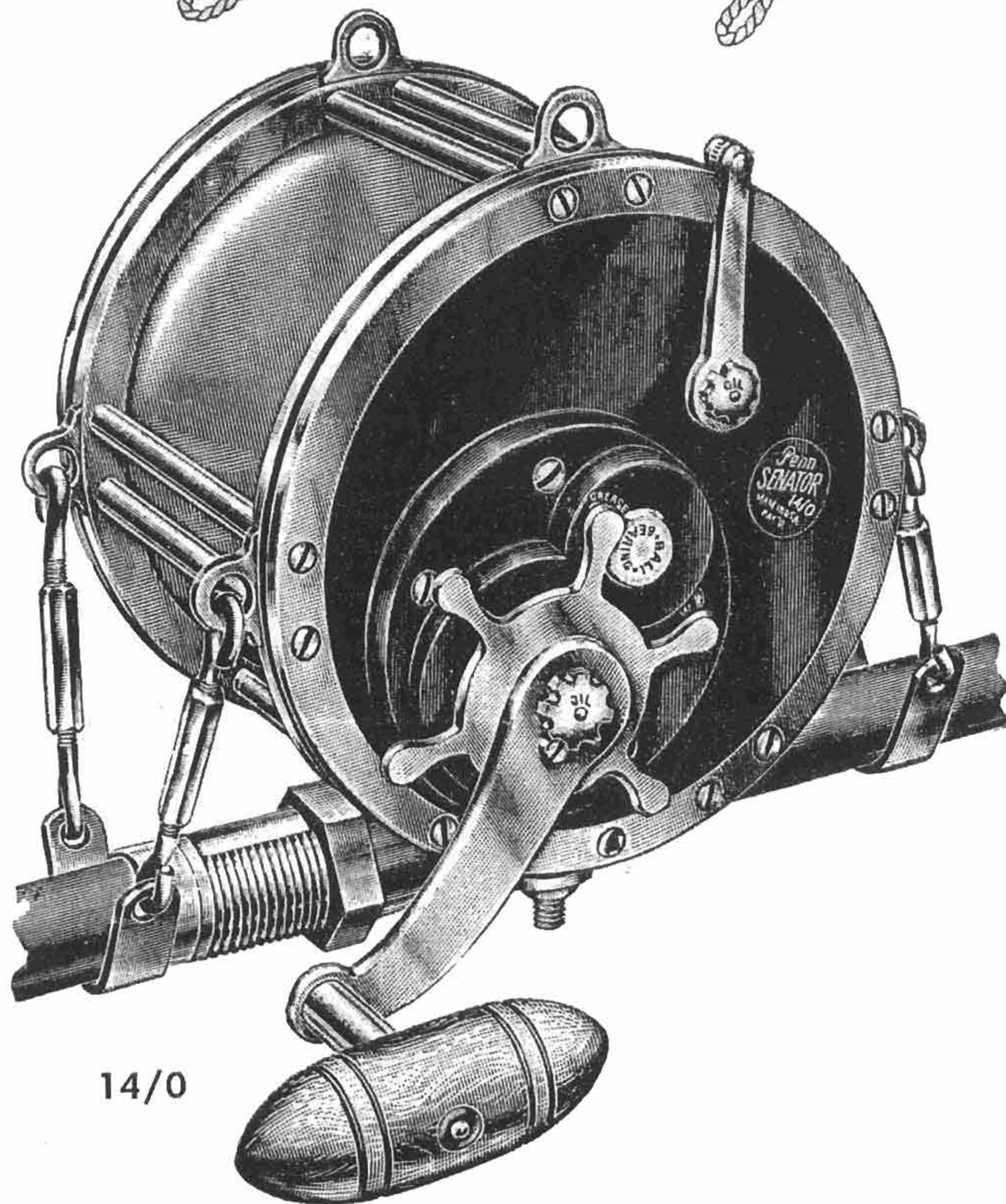
No. and Size of Reel	No. 12	No. 15	No. 18
No. 113 — 4/0	350	300	250
No. 114 — 6/0		500	400
No. 115 — 9/0			600
No. 116A — 10/0			
No. 116 — 12/0			
No. 117 — 14/0			
No. 118 — 16/0			

Reel No.	No. 54 Harness Lug		No. 54 Rod Brace Lug		No. 56 Rod Brace	
	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each
113	54-113	.30	.....	.....	.....	.....
114	54-114	.30	.....	.....	.....	.....
115	54-114	.30	54-114	.30	56-115	\$2.50
116A	54-116	.30	54-114	.30	56-116	\$2.50
116	54-116	.30	54-114	.30	56-116	\$2.50
117	54-117	.50	54-117	.50	56-117	\$2.50
118	54-117	.50	54-117	.50	56-117	\$2.50

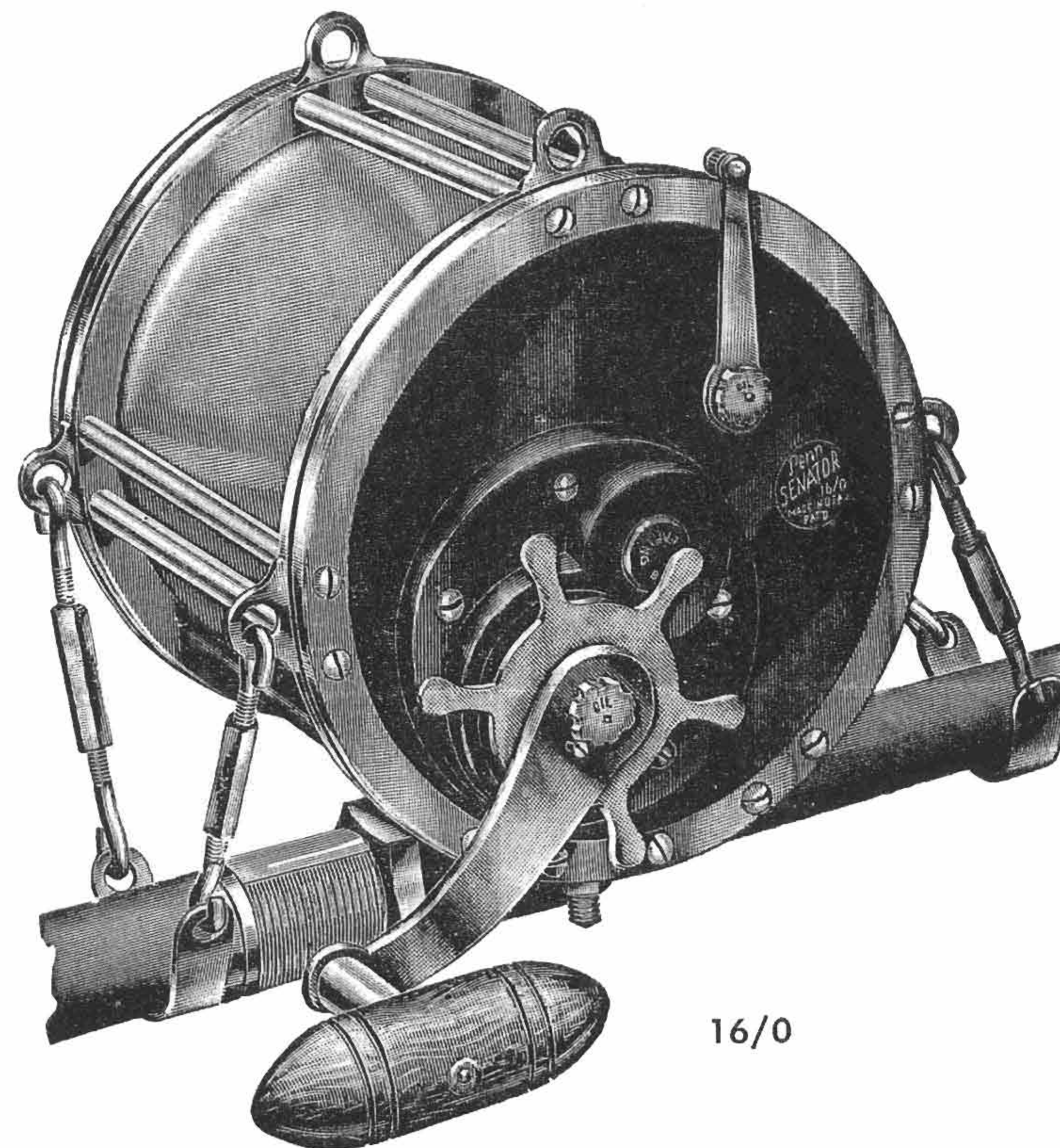
For Big Game Fishing



12/0



14/0



16/0

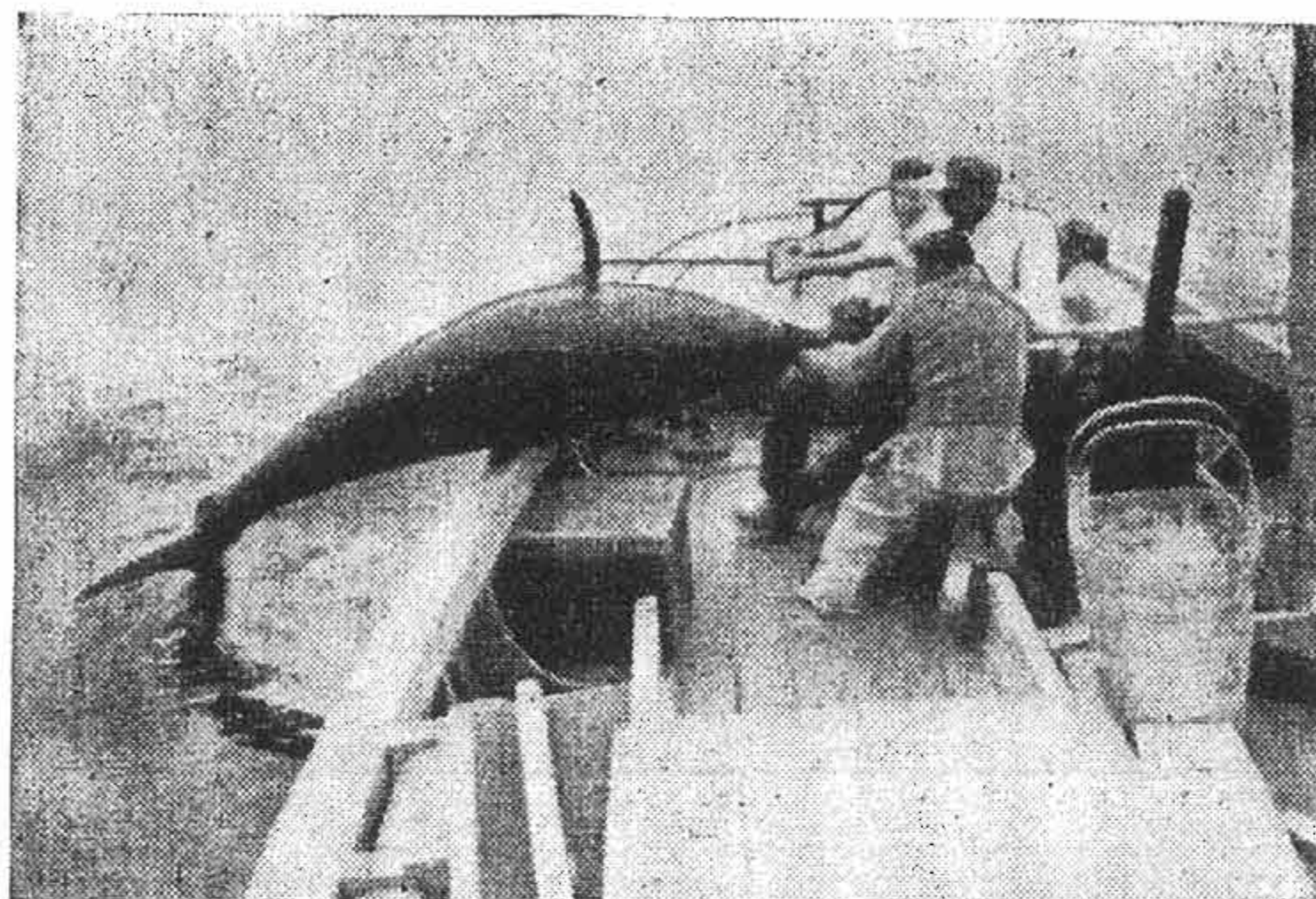
TECHNICAL SPECIFICATIONS

	Plate Diam.	Spool Width	Weight of Reel	Price Each
	3 5/8"	2 7/16"	1 3/4 lbs.	\$22.00
	4 1/8"	2 3/4"	3 lbs.	32.00
	4 5/8"	3 1/4"	3 1/2 lbs.	37.00
	5 3/4"	3 1/4"	5 1/4 lbs.	55.00
	5 3/4"	4"	6 lbs.	65.00
	7"	4"	8 1/2 lbs.	80.00
	7"	5"	9 lbs.	100.00

(LH) for Nos. 116A, 116, 117, 118; \$2.00 for 113, 114, 115.

CAPACITY IN YARDS

Size of Line					
No. 18	No. 21	No. 24	No. 36	No. 54	No. 72
250					
400	350				
600	500	450			
	700	600	450	400	
		900	600	600	450
			800	750	600
			1100		



Nowhere are reels tested more severely than in the Nova Scotia tuna fishery. Many fish of 500 to 900 pounds are caught each season on the 14/0 and 16/0 Penn Senators used by Wedgeport guides for years.

BALANCED TACKLE FOR GAME FISH TROLLING

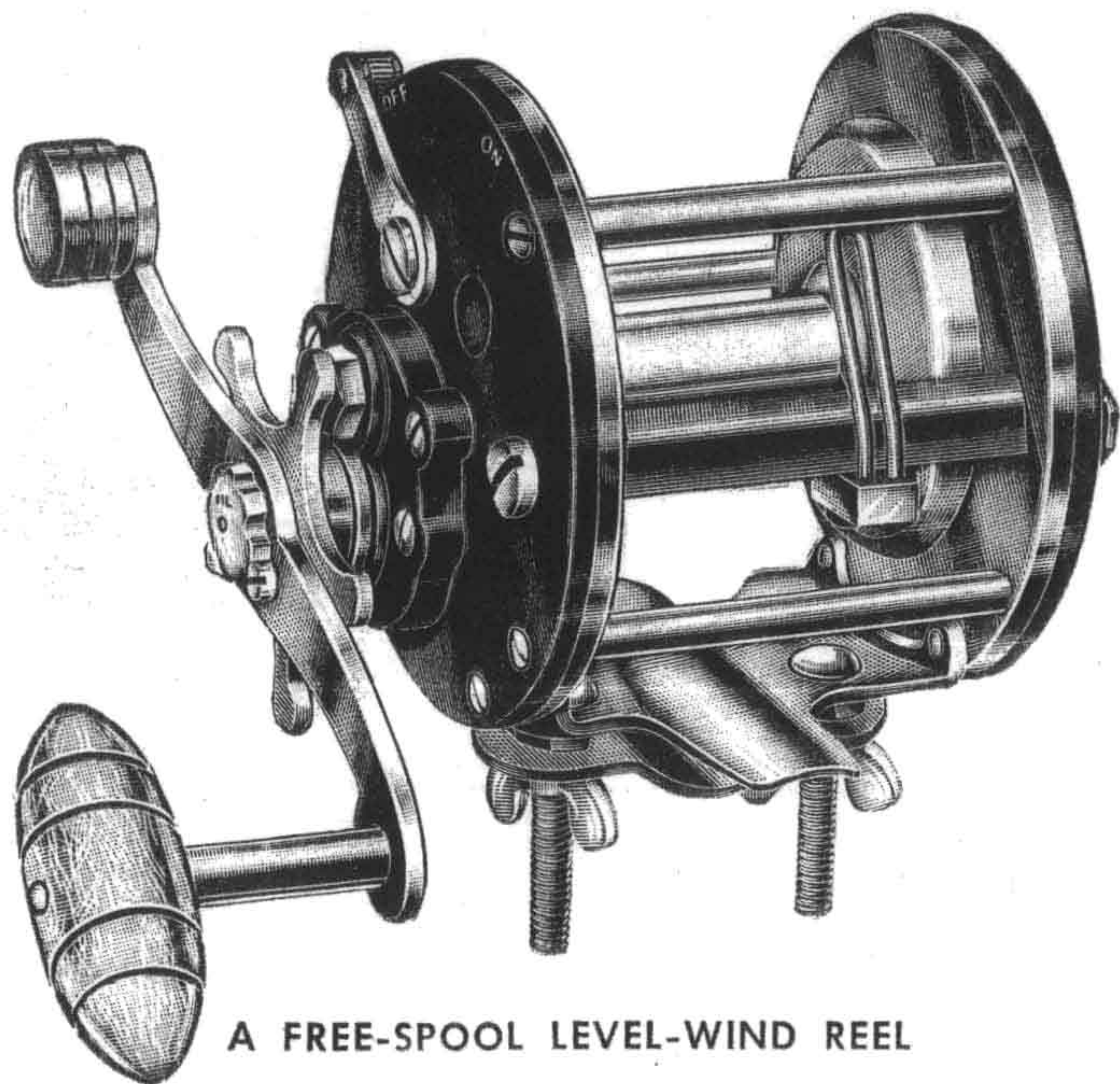
Size of Reel	Size of Line Capacity of Reel	Weight of Tip	Species of Fish
4/0	300 Yds. No. 15	10 oz.	Bluefish, Bonita, Small School Tuna, Albacore, Dolphin, Sailfish up to 50 lbs.
6/0	400 Yds. No. 18	12 oz.	Sailfish, Tarpon, School Tuna, Marlin, Wahoo and others from 25 to 100 lbs.
9/0	500 Yds. No. 21	14 oz.	White Marlin, Tuna, Swordfish, Tarpon and others from 50 to 200 lbs.
10/0	600 Yds. No. 24	16 oz.	Striped, Black and Blue Marlin, Tuna, Swordfish and others from 100 to 300 lbs.
12/0	600 Yds. No. 36	22 oz.	Black, Blue and Striped Marlin, Tuna, Broadbill Swordfish from 300 lbs. up.
14/0	800 Yds. No. 54	30 oz.	All game fish of more than 400 lbs. when fishing under difficult conditions.
16/0	750 Yds. No. 54	30 oz.	All game fish of more than 400 lbs. when fishing in extremely deep water.

MANUFACTURERS OF BETTER REELS FOR SPORT FISHING



Penn PEER LEVEL-WIND REELS

PENN PEER, Sr.



A FREE-SPOOL LEVEL-WIND REEL

No. 209—Capacity, 180 yd. No. 9Price \$14.50

No. 209M—Capacity, 200 yd. No. 9Price \$15.00

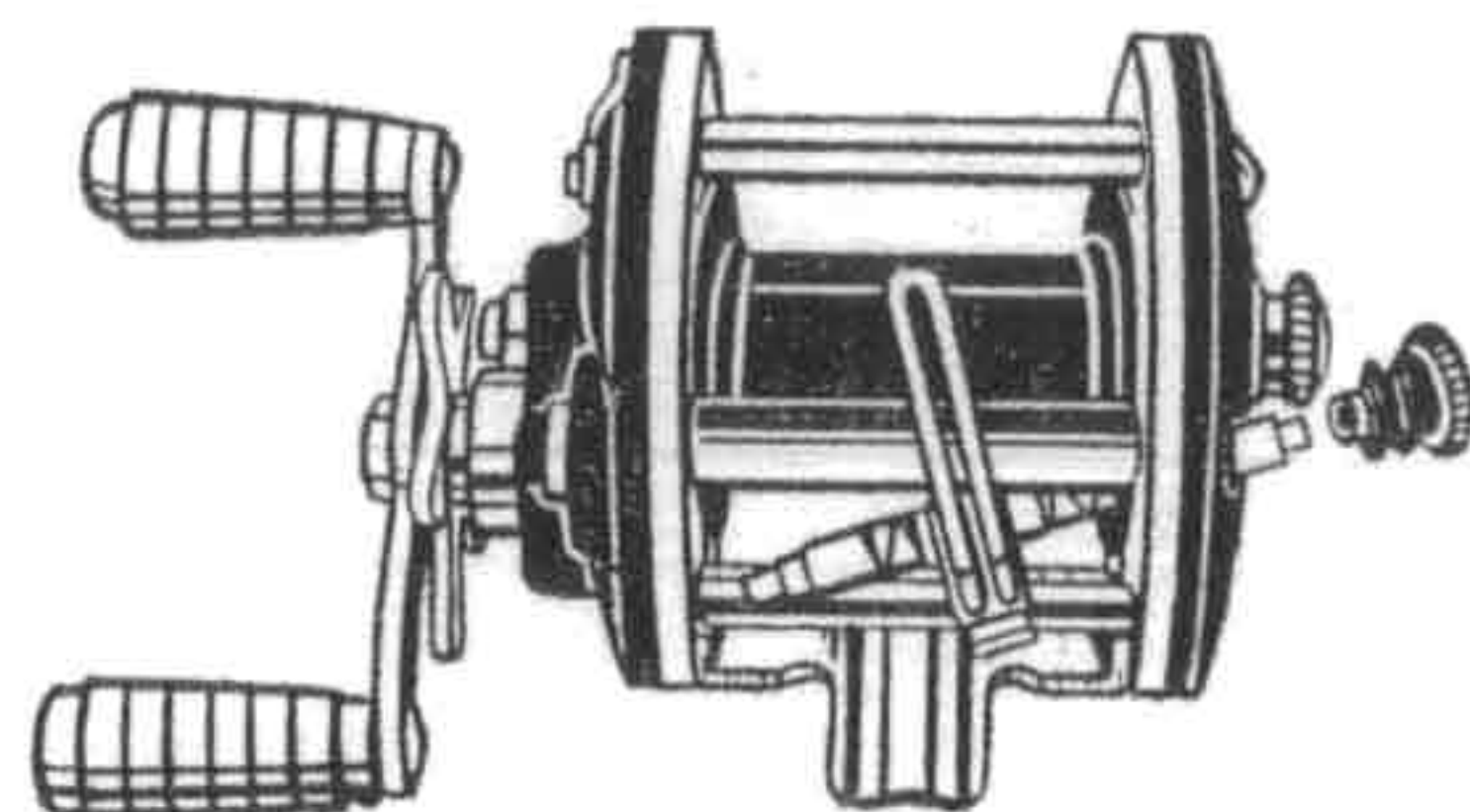
Left hand models \$4.00 extra, add (L.H.) after reel number

New 200 yard heavy duty level wind, free spool reel equipped with metal spool, rod clamp and torpedo handle. Designed for all around light salt-water and heavy fresh-water fishing. The level-wind is always in operation with the spool. A spare level-wind pawl is furnished with reel in magazine on back plate. Gear-ratio 3 to 1. Metal parts are heavily chromium plated to resist salt-water corrosion. Plate diameter 3 1/8", spool width 2 1/8". Weight 20 ounces.

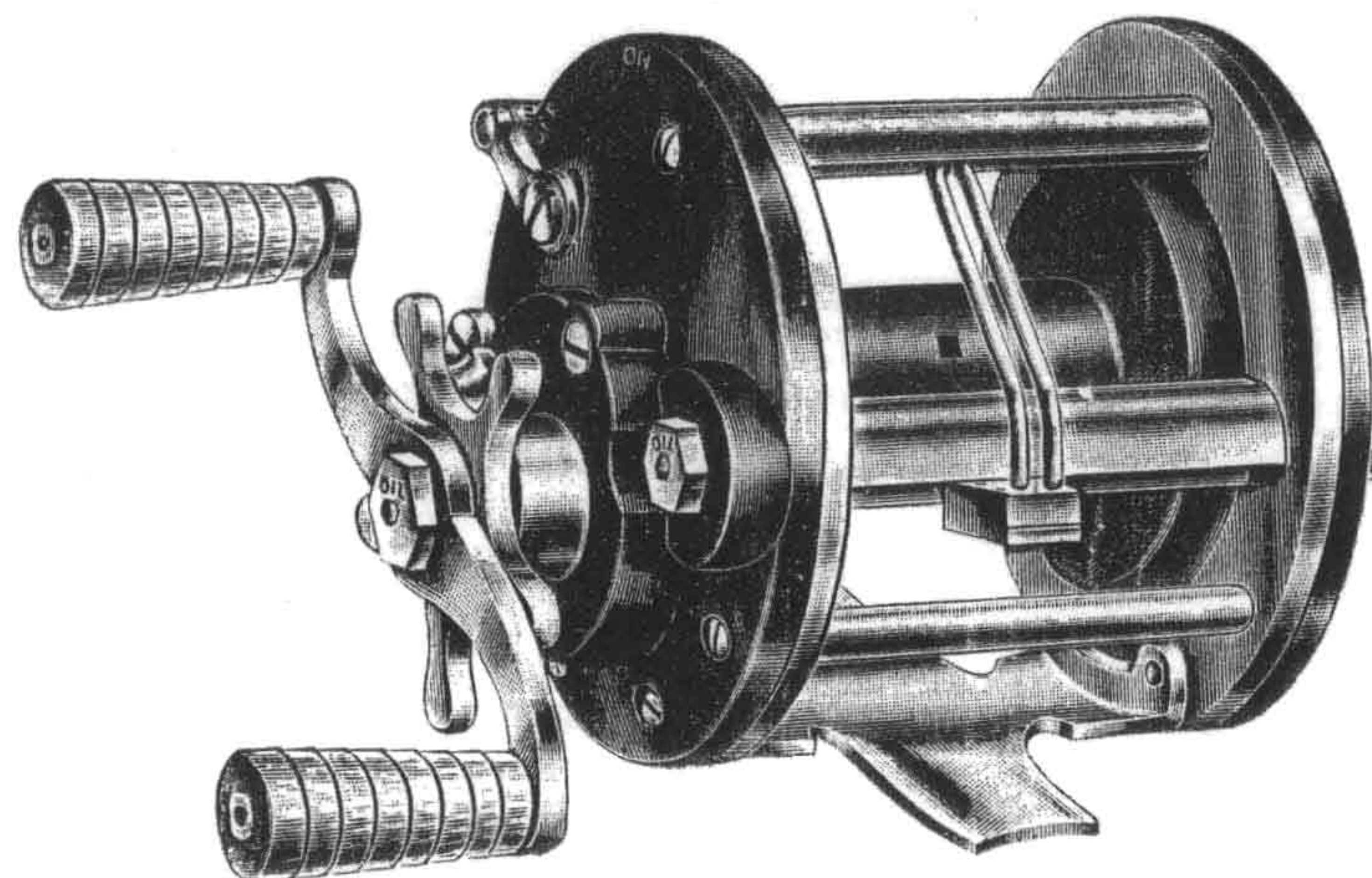
HOW TO REPLACE LEVEL-WIND WORM AND PAWL

To remove line carriage assembly from 109 reel, unscrew worm bearing on back plate and slide assembly out. On model 209, remove worm bearing from front plate, and slide assembly out.

To replace pawl in 109 or 209 reels, unscrew pawl retainer screw, drop new pawl knife edge down into worm groove, so back of pawl is flush with back of carriage, to insure blade of pawl being engaged with worm. Put drop of oil in cap, and screw down tight.



PENN PEER, Jr.



No. 109—2 3/8" Reel Stand for Baitcasting Rods, Plastic spoolPrice \$11.50

No. 109S—2 1/4" Reel Stand for Saltwater Rods, Plastic spoolPrice \$11.50

No. 109M—2 3/8" Reel Stand for Baitcasting Rods, Metal spoolPrice \$12.00

No. 109SM—2 1/4" Reel Stand for Saltwater Rods, Metal spoolPrice \$12.00

Left hand models extra \$4.00 add (LH) after reel number.

Line capacity, plastic spool, 100 yd. No. 9

Line capacity, metal spool, 150 yd. No. 9

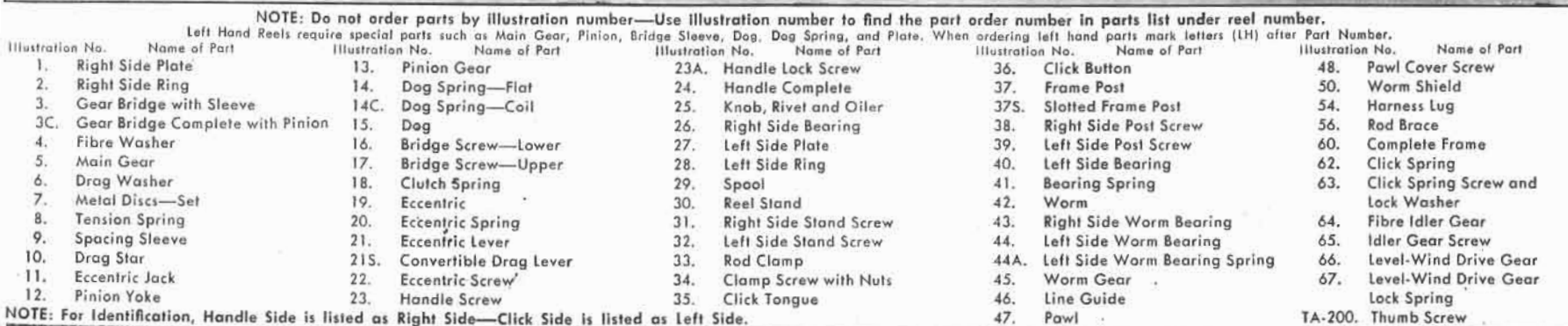
STAR DRAG ONLY (Without Free Spool)

These level-wind reels are especially designed for the light-tackle salt-water angler who desires a level-wind casting reel combining the features of the salt-water reel, but with the casting ability and lightness of the fresh-water reel. The line capacity of the No. 109 is 100 yd. No. 9, or 150 yd. No. 6, and is equipped with our lightweight plastic spool. The 109M is equipped with our reinforced metal spool, capacity 150 yd. No. 9, or 200 yd. No. 6, making it very desirable for light salt-water fishing, and heavy fresh-water trolling. The star drag is designed to tackle game-fish and is very powerful, yet smooth in action. The drag can be put into operation by the flip of a lever. The gear ratio of these reels is 3 3/4 to 1. The level-wind mechanism is sturdily built and dependable. A spare level-wind pawl is furnished with every reel in a magazine on the front plate. Metal parts are heavily chromium-plated. Weights 109—11 oz.; 109M—12 oz.

NOTE: ALL LINE CAPACITIES ARE BASED ON 50'S LEA LINEN LINE

PARTS LIST ON PAGES 20 TO 24. SEE INSTRUCTIONS "HOW TO ORDER PARTS" ON PAGE 24.

PARTS LIST ON PAGES 20 TO 24. SEE INSTRUCTIONS "HOW TO ORDER PARTS" ON PAGE 24.



NOTE: Do not order parts by illustration number—Use illustration number to find the part order number in parts list under reel number.

Left Hand Reels require special parts such as Main Gear, Pinion, Bridge Sleeve, Dog, Dog Spring, and Plate. When ordering left hand parts mark letters (LH) after Part Number.

Illustration No.	Name of Part	Illustration No.	Name of Part	Illustration No.	Name of Part	Illustration No.	Name of Part	Illustration No.	Name of Part
1.	Right Side Plate	13.	Pinion Gear	23A.	Handle Lock Screw	36.	Click Button	48.	Pawl Cover Screw
2.	Right Side Ring	14.	Dog Spring—Flat	24.	Handle Complete	37.	Frame Post	50.	Worm Shield
3.	Gear Bridge with Sleeve	14C.	Dog Spring—Coil	25.	Knob, Rivet and Oiler	37S.	Slotted Frame Post	54.	Harness Lug
3C.	Gear Bridge Complete with Pinion	15.	Dog	26.	Right Side Bearing	38.	Right Side Post Screw	56.	Rod Brace
4.	Fibre Washer	16.	Bridge Screw—Lower	27.	Left Side Plate	39.	Left Side Post Screw	60.	Complete Frame
5.	Main Gear	17.	Bridge Screw—Upper	28.	Left Side Ring	40.	Left Side Bearing	62.	Click Spring
6.	Drag Washer	18.	Clutch Spring	29.	Spool	41.	Bearing Spring	63.	Click Spring Screw and Lock Washer
7.	Metal Discs—Set	19.	Eccentric	30.	Reel Stand	42.	Worm	64.	Fibre Idler Gear
8.	Tension Spring	20.	Eccentric Spring	31.	Right Side Stand Screw	43.	Right Side Worm Bearing	65.	Idler Gear Screw
9.	Spacing Sleeve	21.	Eccentric Lever	32.	Left Side Stand Screw	44.	Left Side Worm Bearing	66.	Level-Wind Drive Gear
10.	Drag Star	21S.	Convertible Drag Lever	33.	Rod Clamp	44A.	Left Side Worm Bearing Spring	67.	Level-Wind Drive Gear
11.	Eccentric Jack	22.	Eccentric Screw	34.	Clamp Screw with Nuts	45.	Worm Gear		Lock Spring
12.	Pinion Yoke	23.	Handle Screw	35.	Click Tongue	46.	Line Guide	TA-200.	Thumb Screw

NOTE: For Identification, Handle Side is listed as Right Side—Click Side is listed as Left Side.

PENN FISHING TACKLE MFG. CO., 3028 W. HUNTING PARK AVENUE, PHILADELPHIA 32, PA.

PENN REEL PARTS No. 1 TO No. 10

PARTS ILLUSTRATION ON PAGE 19. WHEN PART NUMBERS IN TABLE ARE MARKED WITH SYMBOLS (*, ♠, ♥), SEE FOOTNOTE

Reel No.	No. 1 Right Side Plate		No. 2 Right Side Ring		No. 3 Gear Bridge with Sleeve		No. 3C Gear Bridge Complete with Pinion		No. 4 Red Fibre Washer		No. 5 Main Gear		No. 6 Drag Washer		No. 7 Metal Disk Set		No. 8 Tension Spring		No. 9 Spacing Sleeve		No. 10 Drag Star		Reel No.
	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Per Set	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	
9	1-9	.75	2-109	.50	3-9	.50	3C-9	1.50	4-155	.02	5-109	.50	6-155	.02	7-155	.18	8-60	.10	9-60	.10	10-180	.50	9
49	1-49	1.00	2-49*	.75	3-49	.50	3C-49	1.50	4-60	.02	5-49	.50	6-49♥	.02	7-49	.18	8-60	.10	9-60	.10	10-49	.60	49
60	1-60	.75	2-60	.50	3-60	.50	3C-60	1.50	4-60	.02	5-60	.50	6-60	.02	7-60	.18	8-60	.10	9-60	.10	10-60	.50	60
65	1-65	.75	2-60	.50	3-60	.50	3C-60	1.50	4-60	.02	5-60	.50	6-60	.02	7-60	.18	8-60	.10	9-60	.10	10-60	.50	65
66	1-66	.75	2-66	.75	3-66	.50	3C-66	1.50	4-60	.02	5-66	.50	6-60♥	.02	7-66	.30	8-60	.10	9-66♠	.30	10-66	.60	66
67	1-67	.75	2-66	.75	3-66	.50	3C-66	1.50	4-60	.02	5-66	.50	6-60♥	.02	7-66	.30	8-60	.10	9-66♠	.30	10-66	.60	67
68	1-68	.75	2-66	.75	3-66	.50	3C-66	1.50	4-60	.02	5-66	.50	6-60♥	.02	7-66	.30	8-60	.10	9-66♠	.30	10-66	.60	68
80	1-80	.75	.....	..	3-80	.25	3C-80	1.00	.....	..	5-80	.50	.....	..	.....	..	8-60	.10	.....	..	.....	..	80
85	1-85	.75	.....	..	3-85	.50	3C-85	1.50	4-60	.02	5-60	.50	6-60	.02	7-60	.18	8-60	.10	9-60	.10	10-60	.50	85
99	1-99	1.50	2-99	1.25	3-99	.50	3C-99	1.50	4-60	.02	5-60	.50	6-60	.02	7-60	.18	8-60	.10	9-60	.10	10-60	.50	99
100	1-100	1.50	2-200	1.25	3-200	.50	3C-200	1.50	4-60	.02	5-60	.50	6-60	.02	7-60	.18	8-60	.10	9-60	.10	10-60	.50	100
109	1-109	.75	2-109	.50	3-109	.50	3C-109	1.50	4-155	.02	5-109	.50	6-155	.02	7-155	.18	8-60	.10	9-60	.10	10-180	.50	109
110	1-110	.75	2-110*	.60	3-99	.50	3C-99	1.50	4-60	.02	5-60	.50	6-60	.02	7-60	.18	8-60	.10	9-60	.10	10-60	.50	110
111	1-111	.75	2-111*	.60	3-66	.50	3C-66	1.50	4-60	.02	5-66	.50	6-60♥	.02	7-66	.30	8-60	.10	9-111	.20	10-60	.50	111
112	1-112	.75	2-111*	.60	3-66	.50	3C-66	1.50	4-60	.02	5-66	.50	6-60♥	.02	7-66	.30	8-60	.10	9-111	.20	10-60	.50	112
113	1-113	1.00	2-113*	1.00	3-113	.50	3C-113	1.50	4-60	.02	5-66	.50	6-60♥	.02	7-66	.30	8-60	.10	9-111	.20	10-66	.60	113
114	1-114	1.50	2-114*	1.25	3-114	1.50	3C-114	3.00	4-114	.03	5-114	1.00	6-114	.06	7-114	.30	8-114	.15	9-114♠	.35	10-114	.90	114
115	1-115	2.50	2-115*	1.50	3-115	1.50	3C-115	4.00	4-115	.03	5-115	1.25	6-115	.07	7-115	.36	8-114	.15	9-115♠	.35	10-114	.90	115
116A	1-116A	3.00	2-116*	1.80	3-116	2.00	3C-116	5.00	4-116	.03	5-116	1.50	6-116	.08	7-116	.60	8-116	.20	.....	..	10-116	1.20	116A
116	1-116	3.00	2-116*	1.80	3-116	2.00	3C-116	5.00	4-116	.03	5-116	1.50	6-116	.08	7-116	.60	8-116	.20	.....	..	10-116	1.20	116
117	1-117	4.00	2-117*	2.00	3-117	2.50	3C-117	6.50	4-117	.03	5-117	2.00	6-117	.10	7-117	.90	8-117	.25	.....	..	10-117	1.50	117
118	1-118	4.00	2-117*	2.00	3-117	2.50	3C-117	6.50	4-117	.03	5-117	2.00	6-117	.10	7-117	.90	8-117	.25	.....	..	10-117	1.50	118
130	1-130	1.00	2-130	1.00	3-130	.75	3C-130	2.00	4-130	.02	5-130	.70	6-130♥	.02	7-130	.30	8-130	.10	9-130	.20	10-130	.60	130
140	1-140	1.50	2-200	1.25	3-200	.50	3C-140	1.50	4-60	.02	5-60	.50	6-60	.02	7-60	.18	8-60	.10	9-60	.10	10-60	.50	140
145	1-145	1.50	2-200	1.25	3-200	.50	3C-140	1.50	4-60	.02	5-60	.50	6-60	.02	7-60	.18	8-60	.10	9-60	.10	10-60	.50	145
149	1-149	1.00	2-49	.75	3-149	.50	3C-149	1.50	4-60	.02	5-149	.50	6-60♥	.02	7-60	.18	8-60	.10	9-60	.10	10-49	.60	149
150	1-150	1.50	2-200	1.25	3-200	.50	3C-200	1.50	4-60	.02	5-60	.50	6-60	.02	7-60	.18	8-60	.10	9-60	.10	10-60	.50	150
155	1-155	.75	2-155	.50	3-155	.50	3C-155	1.50	4-155	.02	5-155	.50	6-155	.02	7-155	.18	8-60	.10	9-60	.10	10-60	.50	155
160	1-160	.75	2-155	.50	3-155	.50	3C-155	1.50	4-155	.02	5-155	.50	6-155	.02	7-155	.18	8-60	.10	9-60	.10	10-60	.50	160
165	1-165	.75	2-155	.50	3-165	.25	3C-165	1.00	.....	..	5-165	.50	.....	..	.....	..	.....	..	.....	..	.....	..	165
180	1-180	.75	2-155	.50	3-155	.50	3C-155	1.50	4-155	.02	5-155	.50	6-155	.02	7-155	.18	8-60	.10	9-60	.10	10-180	.50	180
185	1-185	.75	2-155	.50	3-165	.25	3C-165	1.00	.....	..	5-165	.50	.....	..	.....	..	.....	..	.....	..	.....	..	185
190	1-190	.75	.....	..	3-165	.25	3C-165	1.00	.....	..	5-165	.50	.....	..	.....	..	.....	..	.....	..	.....	..	190
200	1-200	1.50	2-200	1.25	3-200	.50	3C-200	1.50	4-60	.02	5-60	.50	6-60	.02	7-60	.18	8-60	.10	9-60	.10	10-60	.50	200
209	1-209	.75	2-209	.60	3-155	.50	3C-155	1.50	4-155	.02	5-155	.50	6-155	.02	7-155	.18	8-60	.10	9-60	.10	10-60	.50	209
249	1-249	1.00	.....	..	.....	..	.....	..	.....	..	5-249	.50	.....	..	.....	..	.....	..	.....	..	.....	..	249
250	1-250	1.50	2-250	1.25	3-99	.50	3C-99	1.50	4-60	.02	5-60	.50	6-60	.02	7-60	.18	8-60	.10	9-60	.10	10-60	.50	250
259	1-259	.75	2-110*	.60	3-99	.50	3C-99	1.50	4-60	.02	5-60	.50	6-60	.02	7-60	.18	8-60	.10	9-60	.10	10-60	.50	259
285	1-285	.75	.....	..	3-60	.50	3C-60	1.50	4-60	.02	5-60	.50	6-60	.02	7-60	.18	8-60	.10	9-60	.10	10-60	.50	285

* NOTE: For double plate rings, order inside ring by part number; for outside ring, mark letter (D) after part number.

Right side ring for all Take-Apart Reels are only sold as one unit, due to construction.

Left Hand Reels require left hand parts. When ordering parts for these reels, mark letters (LH) after part number.

♠ Spacing Sleeve Assembly consisting of Spacing Sleeve, Cover Plate, and Felt Washer.

♥ Drag Washers for these reels are available in leather and fibre. Please specify which type is required when ordering.

PENN REEL PARTS No. 11 TO No. 21

ILLUSTRATION OF PARTS ON PAGE 19. WHEN PART NUMBERS IN CHART ARE MARKED WITH SYMBOLS (◇, *, †), SEE FOOTNOTE

Reel No.	No. 11 Eccentric Jack		No. 12 Pinion Yoke		No. 13 Pinion Gear		No. 14 ◇ Dog Spring		No. 15 Dog		No. 16 Bridge Screw Lower		No. 17 Bridge Screw Upper		No. 18 Clutch Spring		No. 19 Eccentric		No. 20 Eccentric Spring		No. 21 Eccentric Lever		Reel No.
	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	
9	11-9	.20	12-9	.16	13-9	.30	14-9	.02	15-9	.10	16-9	.03	17-9	.03	18-60	.02	19-9	.20	20-109	.02	21-109	.20	9
49	11-49	.20	12-60	.16	13-49	.30	14-60	.02	15-49	.10	16-60	.03	17-60	.03	18-60	.02	19-60*	.20	20-60	.02	21-49	.30	49
60	11-60	.20	12-60	.16	13-60	.30	14-60	.02	15-60	.10	16-60	.03	17-60	.03	18-60	.02	19-60	.20	20-60	.02	21-285	.20	60
65	11-60	.20	12-60	.16	13-60	.30	14-60	.02	15-60	.10	16-60	.03	17-60	.03	18-60	.02	19-60	.20	20-60	.02	21-285	.20	65
66	11-66	.20	12-60	.16	13-66	.30	14-60	.02	15-60	.10	16-60	.03	17-60	.03	18-60	.02	19-60	.20	20-60	.02	21-66	.20	66
67	11-66	.20	12-60	.16	13-66	.30	14-60	.02	15-60	.10	16-60	.03	17-60	.03	18-60	.02	19-60	.20	20-60	.02	21-66	.20	67
68	11-66	.20	12-60	.16	13-66	.30	14-60	.02	15-60	.10	16-60	.03	17-60	.03	18-60	.02	19-60	.20	20-60	.02	21-66	.20	68
80	11-60	.20	12-60	.16	13-60	.30	.....	..	.....	..	16-80	.03	.....	..	18-60	.02	19-60	.20	20-60	.02	21-285	.20	80
85	11-60	.20	12-60	.16	13-60	.30	14-60	.02	15-85	.10	16-60	.03	17-60	.03	18-60	.02	19-60	.20	20-60	.02	21-285	.20	85
99	11-99	.20	12-99	.16	13-99	.30	14-99	.02	15-99	.10	16-60	.03	17-60	.03	18-60	.02	19-110	.20	20-60	.02	21-66	.20	99
100	11-155	.20	12-155	.16	13-155	.30	14-155	.02	15-200	.10	16-60	.03	17-60	.03	18-60	.02	19-200	.20	20-155	.02	21-200	.20	100
109	.....	..	.....	..	13-109	.30	14-109	.02	15-109	.10	16-60	.03	.....	..	.....	..	19-109	.20	20-109	.02	21-109	.20	109
110	11-110	.20	12-110	.16	13-99	.30	14-60	.02	15-60	.10	16-60	.03	17-60	.03	18-60	.02	19-110	.20	20-60	.02	21-66	.20	110
111	11-60	.20	12-60	.16	13-66	.30	14-60	.02	15-60	.10	16-60	.03	17-60	.03	18-60	.02	19-110	.20	20-60	.02	21-66	.20	111
112	11-60	.20	12-60	.16	13-66	.30	14-60	.02	15-60	.10	16-60	.03	17-60	.03	18-60	.02	19-110	.20	20-60	.02	21-66	.20	112
113	11-66	.20	12-113	.20	13-113	.40	14-60	.02	15-60	.10	16-60	.03	17-60	.03	18-60	.02	19-110	.20	20-60	.02	21-66	.20	113
114	11-114	.60	12-114	.30	13-114	.80	14-114	.03	15-114	.16	16-114	.05	17-114	.05	18-114	.05	19-114	.40	20-114	.05	21-114	.40	114
115	11-115	.60	12-114	.30	13-114	.80	14-116	.03	15-115	.20	16-114	.05	17-114	.05	18-114	.05	19-115	.40	20-114	.05	21-114	.40	115
116A	11-116	.80	12-116	.50	13-116	1.00	14-116	.03	15-116	.30	16-114	.05	17-114	.05	18-114	.05	19-115	.40	20-114	.05	21-114	.40	116A
116	11-116	.80	12-116	.50	13-116	1.00	14-116	.03	15-116	.30	16-114	.05	17-114	.05	18-114	.05	19-115	.40	20-114	.05	21-114	.40	116
117	11-116	.80	12-116	.50	13-117	1.20	14-117	.04	15-117	.30	16-114	.05	17-114	.05	18-114	.05	19-115	.40	20-114	.05	21-117	.40	117
118	11-116	.80	12-116	.50	13-117	1.20	14-117	.04	15-117	.30	16-114	.05	17-114	.05	18-114	.05	19-115	.40	20-114	.05	21-117	.40	118
130	11-130	.20	12-60	.16	13-130	.30	14-130	.02	15-130	.10	16-60	.03	17-60	.03	18-60	.02	19-130	.20	20-155	.02	21-130	.30	130
140	11-155	.20	12-155	.16	13-140	.30	14-140	.02	15-140	.10	16-60	.03	17-60	.03	18-60	.02	19-200*	.20	20-155	.02	21-200†	.20	140
145	11-155	.20	12-155	.16	13-140	.30	14-140	.02	15-140	.10	16-60	.03	17-60	.03	18-60	.02	19-200*	.20	20-155	.02	21-200†	.20	145
149	11-49	.20	12-113	.16	13-149	.30	14-60	.02	15-149	.10	16-60	.03	17-60	.03	18-60	.02	19-60	.20	20-60	.02	21-49	.30	149
150	11-155	.20	12-155	.16	13-155	.30	14-155	.02	15-200	.10	16-60	.03	17-60	.03	18-60	.02	19-200	.20	20-155	.02	21-200	.20	150
155	11-155	.20	12-155	.16	13-155	.30	14-155	.02	15-155	.10	16-60	.03	17-60	.03	18-60	.02	19-155	.20	20-155	.02	21-155	.20	155
160	11-155	.20	12-155	.16	13-155	.30	14-155	.02	15-155	.10	16-60	.03	17-60	.03	18-60	.02	19-155	.20	20-155	.02	21-155	.20	160
165	11-155	.20	12-155	.16	13-155	.30	.....	..	.....	..	16-60	.03	17-60	.03	18-60	.02	19-155	.20	20-155	.02	21-155	.20	165
180	11-155	.20	12-155	.16	13-155	.30	14-155	.02	15-155	.10	16-60	.03	17-60	.03	18-60	.02	19-155	.20	20-155	.02	21-155	.20	180
185	11-155	.20	12-155	.16	13-155	.30	.....	..	.....	..	16-60	.03	17-60	.03	18-60	.02	19-155	.20	20-155	.02	21-155	.20	185
190	11-155	.20	12-155	.16	13-155	.30	.....	..	.....	..	16-60	.03	17-60	.03	18-60	.02	19-155	.20	20-155	.02	21-155	.20	190
200	11-155	.20	12-155	.16	13-155	.30	14-155	.02	15-200	.10	16-60	.03	17-60	.03	18-60	.02	19-200	.20	20-155	.02	21-200	.20	200
209	11-155	.20	12-155	.16	13-155	.30	14-99	.02	15-209	.10	16-60	.03	17-60	.03	18-60	.02	19-209	.20	20-155	.02	21-209	.20	209
249	.....	..	.....	..	13-249	.30	.....	..	.....	..	.....	..	.....	..	.....	..	.....	..	.....	..	.....	..	249
250	11-99	.20	12-99	.16	13-99	.30	14-60	.02	15-60	.10	16-60	.03	17-60	.03	18-60	.02	19-110	.20	20-60	.02	21-66	.20	250
259	11-110	.20	12-110	.16	13-99	.30	14-60	.02	15-60	.10	16-60	.03	17-60	.03	18-60	.02	19-110	.20	20-60	.02	21-66	.20	259
285	11-60	.20	12-60	.16	13-60	.30	14-60	.02	15-60	.10	16-60	.03	17-60	.03	18-60	.02	19-60	.20	20-60	.02	21-285	.20	285

Details on construction of Penn Reels on Pages 25 and 26.

◇ No. 14 is Flat Spring, No. 14C is Coil Spring.

† For Convertible Lever, order Part No. 21S.

* For Convertible Lever Eccentric, mark letter (C) after part number.

Penn Reel Parts are interchangeable, and are numbered in a way to easily indicate in which Reel each part will fit. The first number before the dash is the part illustration number; the number after the dash indicates the reel number. If the same part number is listed for different reel numbers, this part is interchangeable. For example: On Page 23, Part No. 40-60 fits practically all Penn Reels.

PENN REEL PARTS No. 22 TO No. 30

PARTS ILLUSTRATION ON PAGE 19. WHEN PART NUMBERS IN TABLE ARE MARKED WITH SYMBOLS (*, †, ‡, △), SEE FOOTNOTE

Reel No.	No. 22 Eccentric Screw		No. 23 Handle Screw		No. 23A Handle Lock Screw		No. 24 Handle Complete		No. 25 Knob, Rivet and Oiler		No. 26 Right Side Bearing		No. 27 Left Side Plate		No. 28 Left Side Ring		No. 29 Plastic Spool		No. 29M‡ Metal Spool		No. 30 Reel Stand		Reel No.
	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Per Set	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	
9	22-109	.04	23-60	.20	23A-60	.02	24-160	1.20	25-160	.50	26-9	.30	27-9	1.00	28-109	.50	29-9	1.60	29M-9	2.40	30-109	1.20	9
49	22-60	.04	23-60	.20	23A-60	.02	24-49	1.50	25-49	.60	26-60	.30	27-49	1.00	28-49*	.75	29-49	1.50	29M-49	2.50	30-49	2.20	49
60	22-60	.04	23-60	.20	23A-60	.02	24-66	1.20	25-66	.50	26-60	.30	27-60	.75	28-60	.50	.....	...	29M-60	1.80	30-60	1.20	60
65	22-60	.04	23-60	.20	23A-60	.02	24-66	1.20	25-66	.50	26-60	.30	27-60	.75	28-60	.50	.....	...	29M-65	2.00	30-65	1.20	65
66	22-60	.04	23-60	.20	23A-60	.02	24-66	1.20	25-66	.50	26-60	.30	27-66	.75	2-66	.75	.....	...	29M-66	2.00	30-66	2.20	66
67	22-60	.04	23-60	.20	23A-60	.02	24-66	1.20	25-66	.50	26-60	.30	27-66	.75	2-66	.75	.....	...	29M-67	2.00	30-200	2.20	67
68	22-60	.04	23-60	.20	23A-60	.02	24-66	1.20	25-66	.50	26-60	.30	27-66	.75	2-66	.75	.....	...	29M-68	2.50	30-68	2.20	68
80	22-60	.04	23-85	.10	.....	..	24-85	.80	25-85	.24	26-60	.30	27-85	.75	.....	..	29-85	1.20	.....	...	30-85	.80	80
85	22-60	.04	23-85	.10	.....	..	24-85	.80	25-85	.24	26-60	.30	27-85	.75	.....	..	29-85	1.20	.....	...	30-85	.80	85
99	22-99	.20	23-60	.20	23A-60	.02	24-155	1.20	25-155	.50	26-155	.30	27-99	.75	28-99*	.50	29-99	1.20	29M-99	1.80	30-99	2.20	99
100	22-99	.20	23-60	.20	23A-60	.02	24-160	1.20	25-160	.50	26-155	.30	27-200	.75	28-140	.50	29-100	1.20	29M-100	1.60	30-49	2.20	100
109	22-109	.04	23-180	.20	.....	..	24-109	1.00	25-109	.50	26-109	.30	27-109	.75	28-109	.50	29-109	1.20	29M-109	1.60	30-109†	1.20	109
110	22-99	.20	23-60	.20	23A-60	.02	24-155	1.20	25-155	.50	26-155	.30	27-110	.75	2-110*	.60	.....	...	29M-110	1.80	30-49	2.20	110
111	22-99	.20	23-60	.20	23A-60	.02	24-155	1.20	25-155	.50	26-60	.30	27-111	.75	2-111*	.60	.....	...	29M-60	1.80	30-111	2.50	111
112	22-99	.20	23-60	.20	23A-60	.02	24-155	1.20	25-155	.50	26-60	.30	27-111	.75	2-111*	.60	.....	...	29M-112	2.00	30-112	2.50	112
113	22-99	.20	23-60	.20	23A-60	.02	24-66	1.20	25-66	.50	26-60	.30	27-113	1.00	2-113*	1.00	.....	...	29M-67	2.00	30-113	2.50	113
114	23-60	.20	23-114	.30	23A-60	.02	24-114	1.80	25-114	.80	26-114	.50	27-114	1.40	2-114*	1.25	.....	...	29M-114	4.00	30-114	3.50	114
115	23-60	.20	23-114	.30	23A-60	.02	24-115	2.00	25-115	.90	26-114	.50	27-115	2.40	28-115*	1.50	.....	...	29M-115	6.00	30-115	3.50	115
116A	23-60	.20	23-116	.40	23A-60	.02	24-116	2.50	25-116	1.00	26-116	.60	27-116	2.80	28-116*	1.80	.....	...	29M-116A	8.00	30-116A	4.50	116A
116	23-60	.20	23-116	.40	23A-60	.02	24-116	2.50	25-116	1.00	26-116	.60	27-116	2.80	28-116*	1.80	.....	...	29M-116	10.00	30-116	4.50	116
117	23-60	.20	23-116	.40	23A-60	.02	24-117	3.00	25-117	1.20	26-117	3.00	27-117	3.60	2-117*	2.00	.....	...	29M-117	16.00	30-117	5.50	117
118	23-60	.20	23-116	.40	23A-60	.02	24-117	3.00	25-117	1.20	26-117	3.00	27-117	3.60	2-117*	2.00	.....	...	29M-118	20.00	30-118	5.50	118
130	22-60	.04	23-60	.20	23A-60	.02	24-66	1.20	25-66	.50	26-60	.30	27-130	1.00	2-130	1.00	.....	...	29M-130	2.20	30-130	2.50	130
140	22-99△	.20	23-60	.20	23A-60	.02	24-155	1.20	25-155	.50	26-140	2.50	27-140	.75	28-140*	.50	29-140	1.50	.....	...	30-200	2.20	140
145	22-99△	.20	23-60	.20	23A-60	.02	24-155	1.20	25-155	.50	26-140	2.50	27-140	.75	28-140*	.50	29-145	1.50	.....	...	30-66	2.20	145
149	22-60	.04	23-60	.20	23A-60	.02	24-49	1.50	25-49	.60	26-60	.30	27-149	1.00	2-49	.75	29-49	1.50	29M-49	2.50	30-149	1.20	149
150	22-99	.20	23-60	.20	23A-60	.02	24-155	1.20	25-155	.50	26-155	.30	27-200	.75	28-140	.50	29-150	1.20	29M-150	1.60	30-66	2.20	150
155	22-60	.04	23-60	.20	23A-60	.02	24-155	1.20	25-155	.50	26-155	.30	27-155	.75	2-155	.50	29-200	1.20	29M-200	1.80	30-155	1.20	155
160	22-60	.04	23-60	.20	23A-60	.02	24-160	1.20	25-160	.50	26-155	.30	27-155	.75	2-155	.50	29-150	1.20	29M-150	1.60	30-65	1.20	160
165	22-60	.04	23-60	.20	23A-60	.02	24-160	1.20	25-160	.50	26-155	.30	27-155	.75	2-155	.50	29-150	1.20	29M-150	1.60	30-65	1.20	165
180	22-60	.04	23-180	.20	.....	..	24-180	1.00	25-180	.24	26-155	.30	27-155	.75	2-155	.50	29-100	1.20	29M-100	1.60	30-180†	1.20	180
185	22-60	.04	23-180	.20	.....	..	24-180	1.00	25-180	.24	26-155	.30	27-155	.75	2-155	.50	29-100	1.20	29M-100	1.60	30-180†	1.20	185
190	22-60	.04	23-85	.10	.....	..	24-180	1.00	25-180	.24	26-155	.30	27-190	.75	.....	..	29-100	1.20	29M-100	1.60	30-180†	1.20	190
200	22-99	.20	23-60	.20	23A-60	.02	24-155	1.20	25-155	.50	26-155	.30	27-200	.75	28-140	.50	29-200	1.20	29M-200	1.80	30-200	2.20	200
209	22-60	.04	23-60	.20	23A-60	.02	24-155	1.20	25-155	.50	26-155	.30	27-209	1.00	28-209	.60	29-209	1.80	29M-209	2.50	30-66	2.20	209
249	.....	..	23-60	.20	23A-60	.02	24-249	1.20	25-249	.24	26-249	.30	27-249	1.00	.....	..	29-249	1.50	.....	...	30-149	1.20	249
250	22-99	.20	23-60	.20	23A-60	.02	24-155	1.20	25-155	.50	26-155	.30	27-250	.75	28-250	.50	29-250	1.20	29M-250	1.80	30-200	2.20	250
259	22-99	.20	23-60	.20	23A-60	.02	24-155	1.20	25-155	.50	26-155	.30	27-259	.75	2-110*	.60	29-250	1.20	29M-250	1.80	30-200	2.20	259
285	22-60	.04	23-60	.20	23A-60	.02	24-155	1.20	25-155	.50	26-60	.30	27-85	.75	.....	..	29-85	1.20	29M-60	1.80	30-60	1.20	285

△ NOTE: For convertible eccentric lever screw, use Part No. 22-109.

‡ Reels with metal spools contain the same parts as those with plastic spools.

* For double rings, order inside ring by part number; for outside ring mark letter (D) after part number.

† For reel stands, to fit Baitcasting rods with offset reel seat, order by part number listed in column No. 30. For long reel stands, to fit salt or fresh water rods with straight reel seat, add letter (S) after part number listed in column No. 30.

PENN REEL HANDLES are interchangeable. For OVERSIZE handle (longer than standard size) use the next larger size. Length of handles: No. 24-109 2 7/8", No. 24-180 3", No. 24-160 3 1/2", No. 24-155 4", No. 24-66 4 5/8", No. 24-49 5". When replacing handle screw, be sure to TIGHTEN handle screw before inserting small lock screw.

PENN REEL PARTS No. 31 TO No. 41

ILLUSTRATION OF PARTS ON PAGE 19. WHEN PARTS ON PAGE ARE MARKED WITH SYMBOL (♣), SEE FOOTNOTE

Reel No.	No. 31 R. S. Stand Screw		No. 32 L. S. Stand Screw		No. 33 Rod Clamp		No. 34 Clamp Screw with Nuts		No. 35 Click Tongue		No. 36 Click Button		No. 37 Frame Post		No. 38 R. S. Post Screw		No. 39 L. S. Post Screw		No. 40 Left Side Bearing		No. 41 Bearing Spring		Reel No.
	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	
9	31-109	.02	31-109	.02	.....	..	.....	..	35-155	.10	36-60	.10	37-109	.20	38-109	.02	38-109	.02	40-109	.30	41-109	.10	9
49	31-110	.02	31-110	.02	33-49	.30	34-49	.20	35-60	.10	36-60	.10	37-49	.20	38-110	.02	38-110	.02	40-60	.30	41-60	.10	49
60	31-60	.02	31-155	.02	.....	..	.....	..	35-60	.10	36-60	.10	37-60	.20	38-60	.02	31-60	.02	40-60	.30	41-60	.10	60
65	31-60	.02	31-155	.02	.....	..	.....	..	35-60	.10	36-60	.10	37-65	.20	38-60	.02	31-60	.02	40-60	.30	41-60	.10	65
66	31-60	.02	31-155	.02	33-200	.30	34-200	.20	35-60	.10	36-60	.10	37-65	.20	38-60	.02	31-60	.02	40-60	.30	41-60	.10	66
67	31-60	.02	31-155	.02	33-200	.30	34-200	.20	35-60	.10	36-60	.10	37-67	.20	38-60	.02	31-60	.02	40-60	.30	41-60	.10	67
68	31-60	.02	31-155	.02	33-200	.30	34-200	.20	35-60	.10	36-60	.10	37-68	.20	38-60	.02	31-60	.02	40-60	.30	41-60	.10	68
80	31-285	.02	32-155	.02	.....	..	.....	..	35-60	.10	36-60	.10	37-60	.20	31-60	.02	31-155	.02	40-60	.30	41-60	.10	80
85	31-285	.02	32-155	.02	.....	..	.....	..	35-60	.10	36-60	.10	37-60	.20	31-60	.02	31-155	.02	40-60	.30	41-60	.10	85
99	31-200	.02	32-110	.02	33-200	.30	34-200	.20	35-60	.10	36-60	.10	37-65	.20	38-200	.02	31-110	.02	40-60	.30	41-60	.10	99
100	31-200	.02	31-285	.02	33-49	.30	34-49	.20	35-155	.10	36-60	.10	37-180	.20	38-200	.02	31-60	.02	40-60	.30	41-60	.10	100
109	31-109	.02	31-109	.02	.....	..	.....	..	35-155	.10	36-109	.10	37-109	.20	38-109	.02	38-109	.02	40-109	.30	41-109	.10	109
110	31-110	.02	32-110	.02	33-49	.30	34-49	.20	35-60	.10	36-60	.10	37-180	.20	38-110	.02	31-110	.02	40-60	.30	41-60	.10	110
111	31-110♣	.02	32-110♣	.02	33-200	.30	34-49	.20	35-60	.10	36-60	.10	37-60	.20	38-110♣	.02	31-110♣	.02	40-60	.30	41-60	.10	111
112	31-110♣	.02	32-110♣	.02	33-200	.30	34-200	.20	35-60	.10	36-60	.10	37-67	.20	38-110♣	.02	31-110♣	.02	40-60	.30	41-60	.10	112
113	31-110	.02	32-110	.02	33-200	.30	34-200	.20	35-60	.10	36-60	.10	37-67	.20	38-110	.02	31-110	.02	40-60	.30	41-60	.10	113
114	31-114	.05	32-114	.05	33-114	.40	34-200	.20	35-114	.16	36-114	.16	37-114	.30	38-114	.05	31-115	.05	40-114	.50	41-114	.16	114
115	31-115	.05	32-115	.05	33-114	.40	34-200	.20	35-115	.16	36-115	.16	37-115	.40	38-114	.05	31-115	.05	40-114	.50	41-114	.16	115
116A	31-115	.05	32-115	.05	33-116	.50	34-116	.40	35-115	.16	36-115	.16	37-116A	.40	38-114	.05	31-115	.05	40-116	.60	41-114	.16	116A
116	31-115	.05	32-115	.05	33-116	.50	34-116	.40	35-115	.16	36-115	.16	37-116	.50	38-114	.05	31-115	.05	40-116	.60	41-114	.16	116
117	31-115	.05	31-115	.05	33-117	.60	34-116	.40	35-115	.16	36-117	.16	37-116	.50	38-114	.05	38-114	.05	40-117	3.00	.....	..	117
118	31-115	.05	31-115	.05	33-117	.60	34-116	.40	35-115	.16	36-117	.16	37-118	.60	38-114	.05	38-114	.05	40-117	3.00	.....	..	118
130	31-155	.02	32-285	.02	33-200	.30	34-49	.20	35-60	.10	36-60	.10	37-60	.20	31-60	.02	31-60	.02	40-60	.30	41-60	.10	130
140	31-200	.02	31-110	.02	33-200	.30	34-200	.20	35-155	.10	36-155	.10	37-155	.20	38-200	.02	38-110	.02	40-140	3.00	.....	..	140
145	31-200	.02	31-110	.02	33-200	.30	34-200	.20	35-155	.10	36-155	.10	37-160	.20	38-200	.02	38-110	.02	40-140	3.00	.....	..	145
149	31-149	.02	31-149	.02	.....	..	.....	..	35-60	.10	36-60	.10	37-49	.20	38-60	.02	38-60	.02	40-60	.30	41-60	.10	149
150	31-200	.02	31-285	.02	33-200	.30	34-200	.20	35-155	.10	36-60	.10	37-160	.20	38-200	.02	31-60	.02	40-60	.30	41-60	.10	150
155	31-155	.02	32-155	.02	.....	..	.....	..	35-155	.10	36-155	.10	37-155	.20	31-60	.02	31-155	.02	40-60	.30	41-60	.10	155
160	31-155	.02	32-155	.02	.....	..	.....	..	35-155	.10	36-155	.10	37-160	.20	31-60	.02	31-155	.02	40-60	.30	41-60	.10	160
165	31-155	.02	32-155	.02	.....	..	.....	..	35-155	.10	36-155	.10	37-160	.20	31-60	.02	31-155	.02	40-60	.30	41-60	.10	165
180	31-285	.02	32-155	.02	.....	..	.....	..	35-155	.10	36-155	.10	37-180	.20	31-60	.02	31-155	.02	40-60	.30	41-60	.10	180
185	31-285	.02	32-155	.02	.....	..	.....	..	35-155	.10	36-155	.10	37-180	.20	31-60	.02	31-155	.02	40-60	.30	41-60	.10	185
190	31-285	.02	32-155	.02	.....	..	.....	..	35-155	.10	36-155	.10	37-180	.20	31-60	.02	31-155	.02	40-60	.30	41-60	.10	190
200	31-200	.02	31-285	.02	33-200	.30	34-200	.20	35-155	.10	36-60	.10	37-155	.20	38-200	.02	31-60	.02	40-60	.30	41-60	.10	200
209	31-285	.02	31-155	.02	33-200	.30	34-200	.20	35-155	.10	36-209	.10	37-209	.20	31-60	.02	31-60	.02	40-60	.30	41-60	.10	209
249	31-149	.02	31-149	.02	.....	..	.....	..	35-60	.10	36-60	.10	37-49	.20	38-60	.02	38-60	.02	40-60	.30	41-60	.10	249
250	31-200	.02	31-285	.02	33-200	.30	34-200	.20	35-60	.10	36-60	.10	37-155	.20	38-200	.02	31-60	.02	40-60	.30	41-60	.10	250
259	31-110	.02	32-110	.02	33-200	.30	34-200	.20	35-60	.10	36-60	.10	37-155	.20	38-110	.02	31-110	.02	40-60	.30	41-60	.10	259
285	31-285	.02	32-155	.02	.....	..	.....	..	35-60	.10	36-60	.10	37-60	.20	31-60	.02	31-155	.02	40-60	.30	41-60	.10	285

♣ NOTE: On Reel Nos. 111-2/0 and 112-3/0 for "covered right and left side screws," use letter (C) after part number.

Left Hand Reels require left hand parts. When ordering parts for these reels, mark letters (LH) after part number.

Penn Reel Parts are interchangeable, and are numbered in a way to easily indicate in which Reel each part will fit. The first number before the dash is the part illustration number; the number after the dash indicates the reel number. If the same part number is listed for different reel numbers, this part is interchangeable. For example: On Page 23, Part No. 40-60 fits practically all Penn Reels.

PENN REEL PARTS No. 42 TO No. 67

ILLUSTRATION OF PARTS ON PAGE 19.

	No. 42 Worm		No. 43 R. S. Worm Bearing		No. 44 L. S. Worm Bearing		No. 44A L. S. Worm Bearing Spring		No. 45 Worm Gear		No. 46 Line Guide		No. 46C Level-wind Complete		No. 47 Pawl		No. 48 Pawl Cover Screw		No. 50 Worm Shield		No. 37S Slotted Line Guide Post	
Reel No.	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
9	42-109	.40	43-9	.30	43-109	.30	.....	..	45-109	.30	46-9	.50	46C-9	1.10	47-109	.10	48-109	.10	50-109	.30	37S-109	.30
109	42-109	.40	43-109	.30	44-109	.30	44A-109	.10	45-109	.30	46-109	.50	46C-109	1.10	47-109	.10	48-109	.10	50-109	.30	37S-109	.30
209	42-209	.50	44-109	.30	43-109	.30	44A-109	.10	45-209	.30	46-209	.50	46C-209	1.20	47-109	.10	48-109	.10	50-209	.40	37S-209	.40

	No. 61 Complete Frame		No. 62 Click Spring		No. 63 Click Spring Screw and Lock Washer		No. 64 Fibre Idler Gear		No. 65 Idler Gear Screw		No. 66 Level-wind Drive Gear (Spool)		No. 67 Level-wind Drive Gear Lock Spring		TA200 Take Apart Thumb Screw		Part No. 54—Harness Lug—See page 16 for Senator Reels, page 6 for No. 130 —Sailfisher. Part No. 54—Rod Brace Lug—See page 16. Part No. 56—Rod Brace—See page 16.											
Reel No.	Part No.	Each Price	Part No.	Each Price	Part No.	Each Price	Part No.	Each Price	Part No.	Each Price	Part No.	Each Price	Part No.	Each Price														
9	.....	..	62-209	.20	63-209	.03	64-9	.40	65-209	.04	66-9	.30	67-9	.02	.25 each											
209	61-209	2.50	62-209	.20	63-209	.03	64-209	.40	65-209	.04	66-209	.30	67-209	.02														

REPAIR PARTS

Greatest care is given to standardization of all parts, wherever possible, regardless of type or size of the Penn Reel—a feature which has never been accomplished in the reel industry. This factor is of utmost importance in servicing Penn Reels, as it reduces to a minimum the number of parts required, and enables us to continue to supply parts for our discontinued models. Many Penn Reel dealers carry parts in stock. If they are unable to furnish the parts you require, order them directly from us.

HOW TO FIND PART NUMBER AND PRICE

Practically all Penn Reel parts are stamped with a part number. If the part you need does not have a part number stamped thereon, we suggest that you look for a similar part in the picture on page 19. This will give you the part illustration number. All parts are listed in this catalog with an illustration number at the top of pages 20 to 24. In these columns you will find the part number and price in line with the reel number (first and last columns). The first number before the dash is the part illustration number (page 19), the number after the dash is the reel number. If the same part number is listed under different reel numbers, this part is interchangeable. For example: On page 23, part 40-60 is shown to fit practically all Penn reels. Most Penn Reel dealers carry parts in stock.



PENN REEL LUBE

No. 24—Small size Price, 10¢ each
No. 224—Large size Price, 25¢ each
Packed one dozen in display carton

These handy tubes contain a combination lubricant which is equally effective for gears, shafts, and ball bearings. All Penn Reels are equipped with self-sealing lubricating nipples, to easily and thoroughly lubricate your Penn Reel. Simply insert the spout of the tube into the lubricating nipples, and by squeezing the collapsible tube at the bottom end, the lubricant is forced under pressure to all the vital points in the Reel.

NOTE WHEN ORDERING PARTS

1. Order by part number only (not just the illustration number). Enclose check, money order or stamps, to cover cost of parts and parcel post charges. When the remittance is not enclosed, or when insufficient funds are sent, order will be sent C.O.D.
2. PRINT your name and address PLAINLY to avoid delay and lost mail.
3. MINIMUM CHARGE for part order is 25¢, plus cost of postage and insurance.

FISHING REEL REPAIR

A fishing reel is a fine piece of machinery that requires expert service. Many Penn Reel Dealers maintain repair departments, but if local service is not available, send your reel to us, parcel post insured. We maintain a repair department, staffed by skilled personnel. When sending your Penn reels to be repaired, please attach a letter to your package, stating what repairs are necessary. PRINT your name and address PLAINLY, in order to avoid loss.

NOTE: The best time to send your reel for overhauling is during the fall and winter months.

OILING SYSTEM

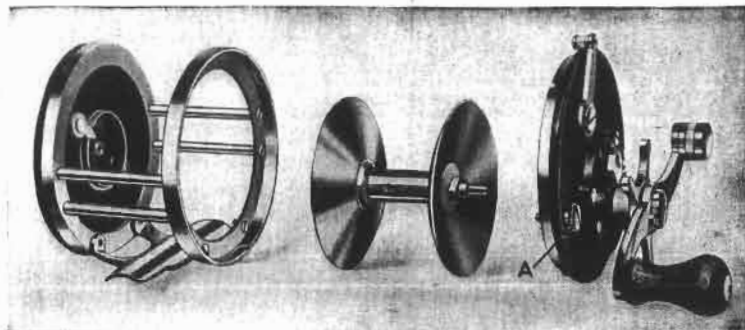


All our reels are equipped with dust and waterproof lubricating nipples, through which the lube is forced under pressure to all vital points in the reel needing lubrication. Built-in oil reservoirs further insure safety. To lubricate the reel, insert the spout of the oil tube into the self-closing lubricating nipple, squeeze the end of the metal tube in order to force the lube to the bearings and gears. A tube of Penn Lube is furnished with every reel. Its periodic use safeguards good performance and insures long reel life. Penn Lube can be bought from your tackle dealer in 10 and 25 cent tubes.

CONSTRUCTION OF PENN FISHING REELS

TAKE-APART CONSTRUCTION

The term "Take-Apart" refers to the feature of quick and easy take-down of the reel for cleaning or spool change. To effect this, unscrew the knurled take-apart screw (part TA 200) three turns to the left and then pull it outward (away from plate), at the same time rotate the right side plate about $\frac{1}{4}$ inch to the left (anti-clockwise) and pull it away from the reel frame, taking care not to drop the freed spool. To re-assemble, reverse the entire operation, making sure to screw the take-apart screw into the reel frame, as otherwise the right side plate might be lost.



OTHER CONSTRUCTION FEATURES

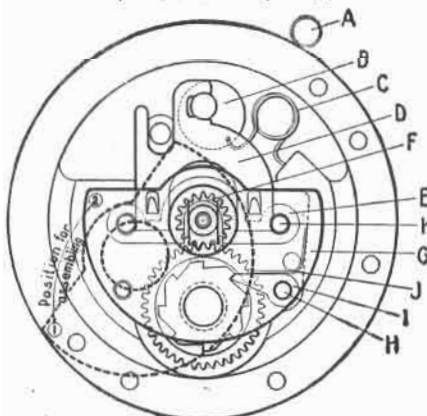
Penn Reels are called on to fulfill the needs of many different kinds of fishing, done by anglers the world over. In keeping with our creed, "To make reels as nearly perfect as is possible, at a low price," we have built into our reels the following features: Take-Apart, Free Spool Clutch, Star Drag, Handle-Screw Locking Device, Non-Strip Gears, and One-Shot Lubrication.

OPERATION OF FREE-SPOOL CLUTCH

The Free-Spool Clutch is employed to either engage, or disengage gears. The free-spool snap lever is conveniently located on right plate rim and enables the angler to throw the reel into free spool, or engagement, at will. Setting the clutch in operation can always be done without danger of stripping gears, as these are always in mesh.

Operation:

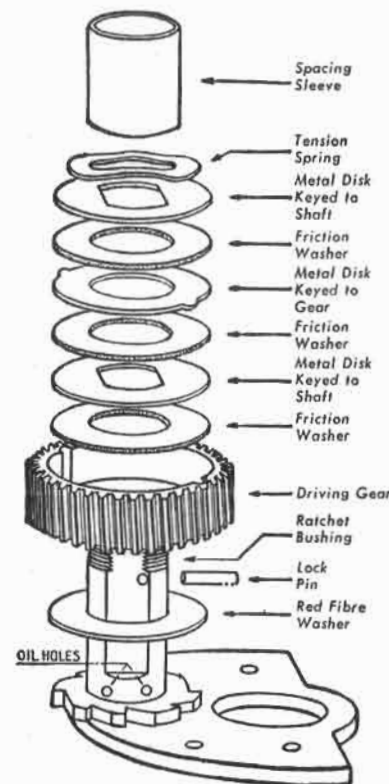
1. Free spool lever (A) operates jack (D) through eccentric (B)
2. Eccentric jack (D) actuates yoke (E)



3. Yoke (E) engages or disengages pinion gear with spool

ASSEMBLING CLUTCH

1. After assembling star-drag mechanism (see top of next column) place gear bridge (G) in position (I).
2. Replace pawl (I) and pawl spring (J). To do this, grip end plate with your left hand, and with left thumb press gear bridge (G) against plate, having gear bridge turned toward the left (position I) far enough to allow the pawl and spring to be placed into position. After inserting the pawl and spring, rotate (without releasing thumb pressure) the gear bridge to the right (position 2) so that the two gear bridge screws (H Long Threaded) may be screwed into gear bridge, followed by two clutch yoke guide screws (K Short Threaded).



Star Drag Assembly for all reels except Senator Reels 2/0 to 16/0 and 66, 67, 68. (See page 26.)

OPERATION OF STAR-DRAG

The Star-Drag is a braking mechanism, which puts varying degrees of tension, depending on the setting of the Star, on the fisherman's line. Care should be exercised not to put more drag on the reel than the line or rod can stand. The purpose of the drag is to have sufficient tension on the line to tire out a fish and slowly wear him down, rather than to stop his run entirely. Having too much drag on the line takes the fun out of fishing and endangers tackle. In order to check the amount of drag you have on your reel, put it in gear and test by pulling line off the spool. Adjustment of the drag is effected by turning the star-wheel, under the handle, to the right (clockwise) to tighten, and to the left (anti-clockwise) to loosen. The full force of the braking action is against the fish only, as the handle is prevented from turning backward by the ratchet dog (pawl) making contact with the gearsleeve ratchet. The physical braking action takes place in the disk-clutch-like arrangement of metal washers, one half of which are keyed to splines cut on the inside cup of the main gear, lips on the washers fitting into these splines. The other half of metal washers are rotating with the gearsleeve by virtue of the rectangular hole in their middle. Friction washers are interposed between the two opposed types of metal washers, in order to provide a medium for smooth braking. To maintain smoothness of operation, it is necessary that the friction washers not be allowed to become oil-soaked, charred, or glazed; the metal washers must have surfaces that are smooth and clean, as otherwise, uneven, jerky drag action results.

CONVERTIBLE STAR-DRAG

No. 140, 145 and No. 49 Reels

The convertible drag lever allows letting out and retrieving line while the reel is still in gear, also full handle control for hooking fish. But the foremost reason for its existence is the control a fisherman has when playing a lunker directly through the handle. Every tug, every flip of the tail of the fish is transmitted to the thumb and index finger of the angler, and it's really give and take at both ends until the contest is decided. Should it thereafter be desired to use the reel as an ordinary star-drag the change can be effected by simply flipping the convertible drag lever downward. For the angler who likes to have his reel in gear at all times and enjoys fighting his fish all the way directly through the reel handle, the convertible drag feature is highly recommended.

DIRECTIONS FOR ASSEMBLING STAR-DRAG

The drag mechanism must be assembled in the order shown in diagram above, alternating the metal disks keyed to shaft and those anchored to the splines of the main gear. The friction washers, acting as brake material, are placed between the metal disks. The drag will not work satisfactorily if the clutch washers are placed in improper sequence, or if the friction washers are oiled. The latter work best when dry.

CONSTRUCTION OF PENN FISHING REELS

SENATOR STAR-DRAG DIAGRAM

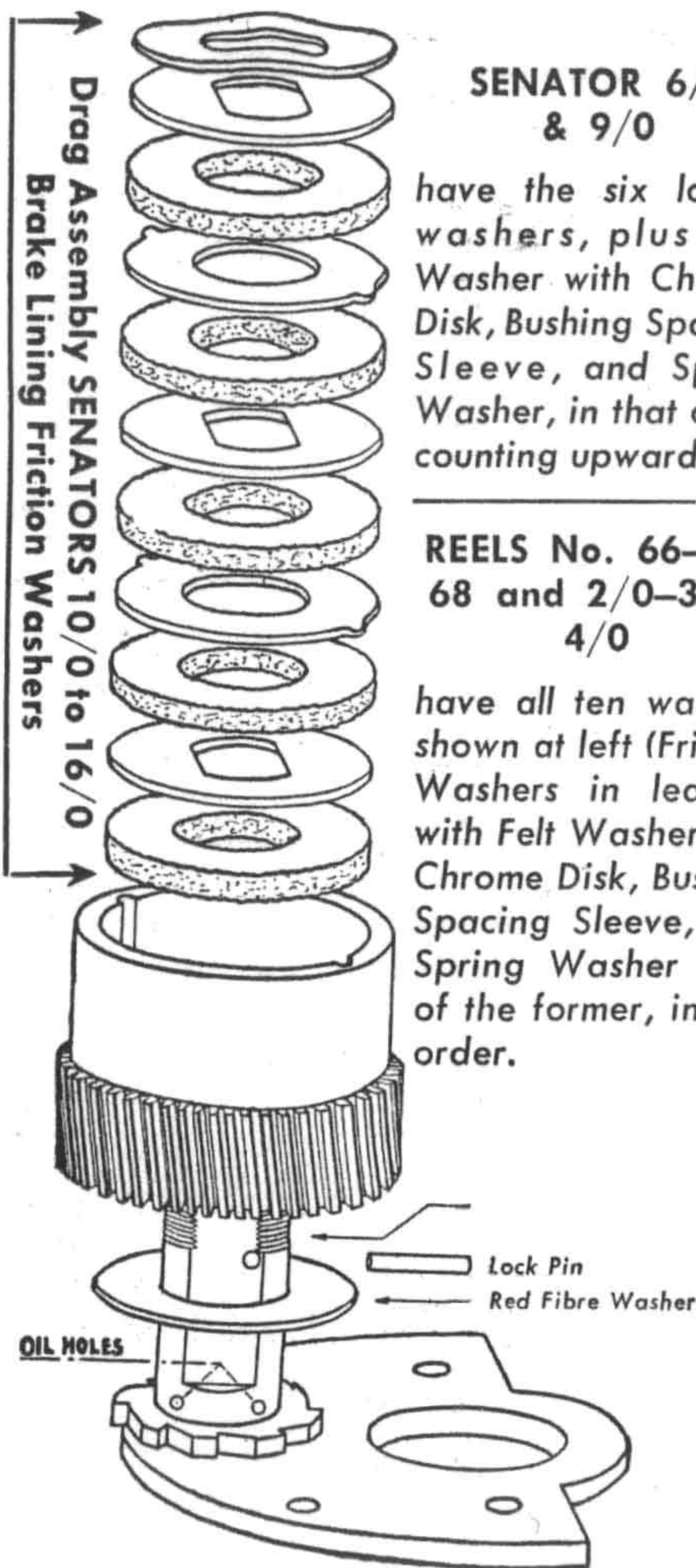
SENATOR STAR-DRAG CLUTCH

SENATOR 6/0 & 9/0

have the six lowest washers, plus Felt Washer with Chrome Disk, Bushing Spacing Sleeve, and Spring Washer, in that order counting upward.

REELS No. 66-67-68 and 2/0-3/0-4/0

have all ten washers shown at left (Friction Washers in leather) with Felt Washer and Chrome Disk, Bushing Spacing Sleeve, and Spring Washer atop of the former, in that order.



The Senator Star-Drag Clutch is a mechanical power transmitting device, operating by friction, for securing or breaking rotative continuity; therewith allowing for a wide range of tension to be applied to a hooked fish. The tremendous braking power built into our star-drag clutch makes it possible to fight the powerful rushes and speedy surges of big-game fish for hours on end, without the danger of the reel "freezing," or injury to the angler. Considering these facts, it is easily understood that the clutch, the flexible and adjustable connection between the fish and the sportsman, is the most important part of a big-game reel.

At the left is shown a cut of our drag mechanism. The five friction washers are made of indestructible automobile brake lining, never in need of any attention. The brake drum is fitted with an oil-less bearing, and can not run hot or seize because of lack of oil. The auto-brake-lining drag washers provide a friction medium, both powerful and smooth in action; thus removing danger of rod or line breakage. The range of drag is adjustable to a fine degree by the star wheel control. The parts of the drag mechanism needing oil, can be supplied with lubricant by means of oil channels from ball oiler, on handle screw.

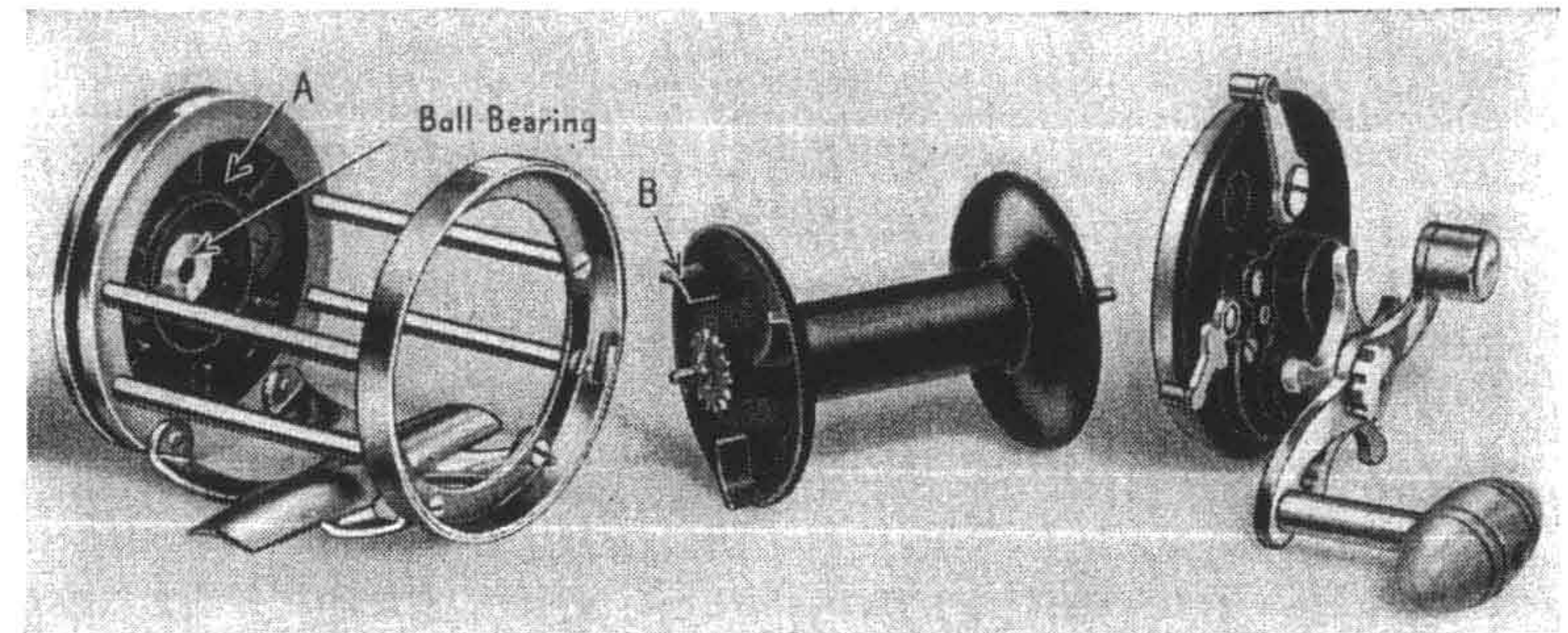
Caution: When putting reels away during the "off season" period, always back off the drag star completely, releasing all tension on the friction washers. With the spool in mesh, pull on the line (as if you were testing line tension) to make sure that the drag assembly is really free. Putting a reel away in damp atmospheres with the drag star pulled up tightly, will often result in all the friction washers sticking to the metal disks. An ounce of precaution is better than a pound of cure.

DIRECTIONS FOR ASSEMBLING CLUTCH

Our drag mechanism must be assembled in the order shown on the above diagram, alternating the metal disks keyed to the shaft with those anchored by means of lips on disks and corresponding splines cut on the inside of main gear wall, with the friction washers interposed between opposing metal disks, to act as braking media. A hard red fibre washer is interposed between the gear sleeve and recessed lower face of main gear. For satisfactory performance, friction washers must be dry.

PENN "SYNCHRONIZED" AIR BRAKE SPOOL

Many kinds of anti-backlash devices, embodying various laws of physics, have been tried in the past. Most of these work on the principle of retarding spool rotative speed during a phase of the cast, which obviously tends to shorten the angler's casting record. In the patented Penn "Air Brake" spool, air turbulence and air resistance are automatically utilized to prevent over-running of the spool, reducing the possibility of backlash, by synchronizing the spool speed with that of the sinker or squid. As there is no friction, nor moving parts or projections to impede the flying start of the spool, and air-braking action greatest when it is needed most, namely, during the phase of the cast when spool rotation is at its peak, performance is not hindered, and danger of backlash greatly reduced.



CONSTRUCTION OF PENN AIR BRAKE

The inside of the spool bell is equipped with fins, or fan blades (B). Opposite these, on the inside of left side plate, are air chambers (A). In casting, when the spool is rotating at a high rate, there is a tendency for a spool to over-run. The Penn spool, equipped with air brakes, generates air pressure in the air chambers (A). This generated pressure acts as a brake on the spool, inhibiting spool rotation sufficiently to prevent over-running and the consequent backlash. As the generated air pressure is in direct relation to the rotative speed of the spool, the retarding effect diminishes as the spool speed is reduced; thereby allowing free travel of the line, and maximum distance of the cast.

CASTING WITH "SYNCHRONIZED" SPOOL

Surf casting is a wholesome sport. Its skills are within the range of accomplishment of the average man or woman. While good coordination of movements is a help to learn the basic skills of the sport, one need not be outstandingly athletic nor possessed of unusual physical vigor in order to attain average proficiency in casting. Physical vigor, robustness, and ultimately expertness, are the outcomes of practicing this fine sport, and once Dame Fortune has crowned your efforts with a silvery beauty in the sand at your feet, you shall need no urging to go back, for you shall be under the spell of the Surf Siren, having heard her call, smelled the sweet fragrance of her sands and rocks, seen the beauty of her moonlit nights and phosphorescence of her tireless waves, and felt the tang of her salty breezes, the warmth of a crackling beach fire and companionship of a fellow surfer.

To cast, put reel in free spool, hold thumb on tightly wound line on spool, cast, and release spool. As the sinker is off to a quick start, hold your thumb lightly against the spool so as to stop it as soon as sinker hits the water. The lightweight spool will get off to a flying start and is very sensitive to thumbing. However, it is important to wind the line tightly and evenly on the spool, as a loose line will dig in and cause backlashes. It is good practice to wind the last few turns crisscross on the spool width. That prevents cutting in at the start of the cast, as well as backlash. New line lacks pliability and is sticky; it must be broken in for a few days before it casts well.

EVERY PENN REEL PART IS MADE IN OUR OWN FACTORY

Care of your reel

LUBRICATING WITHOUT TAKING THE REEL APART

With our patented One Shot Lubrication (See page 24), it is an easy matter to thoroughly oil and grease your reel. A tube of PENN REEL LUBRICANT is furnished free with every PENN reel. Simply insert the spout of the tube into the sealing ball oilers, and by squeezing the tube at the bottom, the oil is forced under pressure to the bearings, thus eliminating all guesswork in lubrication.

Use lubricant on spool bearings, handle shaft, click button, free spool lever, and handle knob. To grease the driving gears, shoot lubricant into nipple on front plate, marked grease. Use oil and grease sparingly. If your reel is thoroughly oiled and greased at all times, it will prevent the injurious inroads of salt water corrosion. Our "One-Shot" lubrication, combined with the built-in oil reservoirs, safeguards perfect performance and long life of the reel.

CLEANING THE REEL

Should sand get into your reel, or should you wish to clean the reel, take it apart, and wash the parts with a mixture of $\frac{3}{4}$ kerosene and $\frac{1}{4}$ light lubricating oil; or one of the commercial solvents on the market for cleaning purposes. Our "Take-Apart" reels can easily be taken apart (see instructions on page 25). On all other models remove the plate screws, and the reel will come apart. For reassembling, see instructions on page 25 and 26.

THE SERVICING OF THE REEL

Your fishing reel is a fine, watch-like mechanism, and with reasonable care should last a lifetime. We advise against taking it apart, except for cleaning and service by a competent and thoroughly experienced repair man. Unless you have unusual mechanical aptitude we advise against doing the work yourself. However, any one whose work is of a mechanical nature, or whose hobby is tinkering with mechanical things, can service his own reel. Should you wish to have your reel reconditioned by our skilled factory repair men, send it to us, parcel post insured, prepaid. Attach a letter to the outside of package stating nature of repairs needed. We will replace parts and put reel in perfect working order, at a very nominal cost. For the man wishing to do his own repair work, the instructions on pages 19 to 26 should be very helpful.

REPAIR PARTS

Standardization of parts, wherever possible, plus mass production methods, make it possible to produce the Penn Reel at a low cost. Most parts are of standard size and interchangeable, regardless of the type or size of reel. This factor is important in the economy of production as well as in the service of Penn Reels. For illustration of Penn Reel Parts, and list of parts with prices please see pages 19-24.

CARE OF YOUR LINE

The improvement during the last thirty years, in lines used for sport fishing, is remarkable. Not only has the old reliable linen line been improved, mostly in the regularity, uniformity and evenness of its construction, but a variety of lines of synthetic composition have been developed and have found ready acceptance by the fishing fraternity, for their particular properties.

Good quality fishing line (grades vary) lasts a long time if given proper treatment and care. By using knots, which, by virtue of their construction are non-chafing, and which, because of these attributes have come down to our era through the ages, you will greatly prolong line life, and reduce the incidence of line failure. It will repay the angler to spend a few minutes to learn which particular knot serves best for a particular need, and then to learn how to make that knot in the most efficient manner! Besides physical wear, chemical effect from verdigris, rust, strong sun rays, fungi, mildew, uric acids (and others) are enemies of lines. If your line is used intermittently only, wash it in fresh water, and allow it to dry (in shade) before putting it back on reel. Reverse your line end for end, in mid-season; over winter or in "off season," store it in a cool, dry place, wrapped securely in paper. Caution: Never take a chance on doubtful line—it doesn't pay!

Selecting your tackle

SELECTING YOUR TACKLE

Because fishing tackle required in the many local fishing areas of our country, varies so greatly, depending on the particular local and seasonal need, recommendations to the angler as to the kind he should procure, must of necessity be of a general nature. For specific advice meeting local needs, we recommend you to the local fishing tackle dealer who knows local conditions best, and will gladly assist you in getting the kind of tackle needed. In order to enjoy fully the pleasures of sport fishing the angler's tackle should blend into a well balanced, harmonious outfit, ownership of which will fill him with pride, and use thereof with a feeling of possessing the finest tools for the sport.

SELECTING YOUR LINE

In considering the line an angler should buy, several factors should be taken into account. First, the kind of fishing one intends to do governs in a large measure line size, both thickness and length. For bay fishing, 100 to 150 yards of either 6 or 9 thread line is sufficient. Surf jetty, and pier fishing requires 200 to 300 yards of 9 to 12 thread line. For offshore bottom fishing, 100 to 150 yards of 12 to 15 thread are most commonly used; length selection depends largely on depth of water and tide currents. Offshore trolling lines run from 200 yards of 9 or 12 thread to 400 to 500 yards of 24 thread line, with line of from 36 to 54 thread being sometimes used for tuna, large marlin and swordfish. See our tackle chart on page 17.

THE REEL TO REEL 'EM IN

A fishing reel has to fulfill the dual purpose of holding the proper length and size of line, and to absorb the strains of the surges and wild runs of a hooked fish. Reels are made in many distinctive types, and while the number of these may seem bewildering at first glance, they are developed to meet the specific needs of the many different kinds of fishing. The many sizes, in which reels are made, make it possible to select just the right size, and make it needless to use a big, heavy and clumsy reel for light-tackle fishing, or conversely, as in game fishing, of getting into trouble by not having the necessary length and size of line on your spool. For light-tackle fishing, a light weight reel, of from 100 yards to 150 yards capacity, is ideal. Surf casting requires 200 yards of either 9 or 12 thread line. Most important in casting, is a light weight spool of small diameter, for distance and for reducing backlashes. An extra spool, for using different size lines, is also very helpful. Preferably, the reel should be equipped with Star Drag and take-apart feature. For squidding or jigging, in addition to a good casting reel, a three-to-one gear ratio is necessary. For offshore bottom fishing, almost any sturdy reel of adequate line capacity will do; but for extremely deep water, a fast action reel will be very useful.

RODS—OR POLES?

The rod industry has undergone a revolution during the last six years. Gone are the POLES of yesteryear, and beautiful, flexible creations of fiberglass cloth, held together by phenolic resins as a bonding agent, cured with heat and pressure, have replaced them. Not that we have forsaken the double-built split bamboo, made by master craftsmen of a past era, entirely. Light tackle, surf, boat, and game fishing rods are made in different lengths and weights, and in colors to please the most fastidious, making it possible for the angler to purchase one to suit his particular bodily proportions. Selecting a rod with the right amount of pliancy, yet having the necessary backbone to both hook and fight a fish, should be a criterion of rod choice. Making sure that tip-top, guides, ferrule and reel seat are of good design and material, should be carefully observed. Your tackle reflects your fishing personality.

END TACKLE—TO BUY OR NOT TO BUY

The offerings in end tackle consist of such a multitude of items, that selecting it becomes bewildering. There is a variety in hooks, leaders, sinkers, swivels, baits, squids, jigs, feathers, plugs—too many to detail. We recommend your local angler and tackle dealer for information on the current "hot" items; they will be glad to help you with their knowledge and experience. Observe what the successful expert uses, and don't hesitate to experiment for yourself.

Helpful tips for the Fisherman

TO FIND LINE CAPACITY OF A REEL

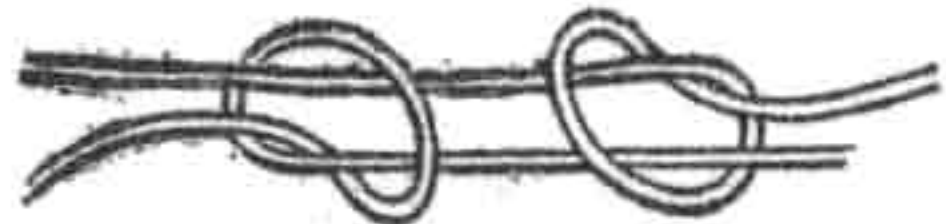
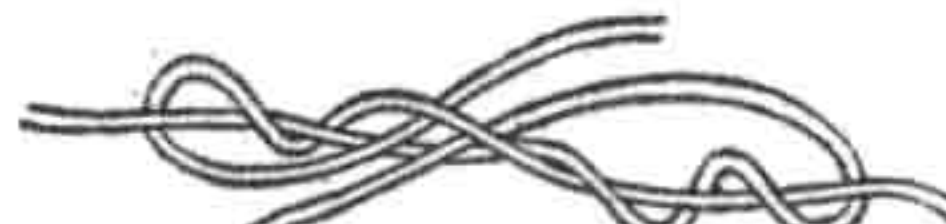
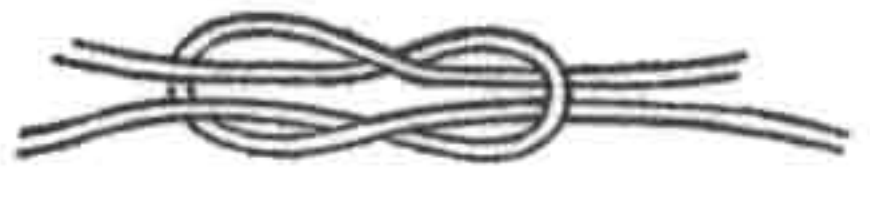
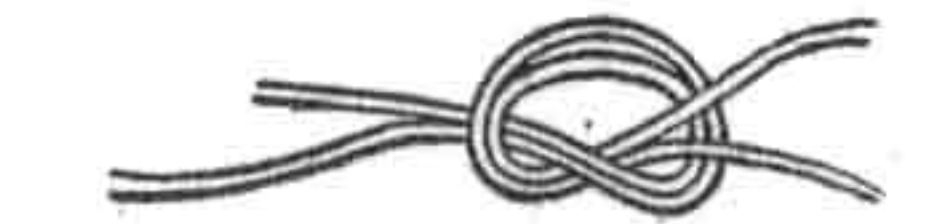





If the line capacity of a reel in a certain size line is known, the line capacity of that reel in a different size line can easily be found (Assuming that the lines are of the same grade.) To find capacity in new size, multiply the known line capacity in yards by the known number of threads, then divide the product by the number of threads of the line in question. The answer is the reel's capacity of the new line in yards.

Example:

1. You know reel holds 300 yards of number 9 line.
2. You want to find reel's capacity of number 12 line.
3. Multiply 300 by 9 equals 2700, divide by 12 equals 225 yards.

USEFUL KNOTS AND HITCHES

In fishing one never knows when a record fish will bite. When it does, one should have line that will hold and land him—that leads us to the subject of "Knots." The test a fisherman should apply to a knot is, "Does it cut the line, and, is line strength reduced by it?" The answer should, of course, be "NO."

SINGLE TIE KNOT  Use with 4 to 6 hitches for cut line repair.	TWIST KNOT  Excellent for tying leaders.	SQUARE KNOT  Back up with 2 to 3 half hitches.
LEADER KNOT  Recommended only for moderate size fish.	CLINCH KNOT  For tying lure or squid.	COMPOUND KNOT  Excellent for end loop.
SINGLE BECKET BEND  For tying hook into loop.	FISHERMAN'S BEND OR ANCHOR HITCH  Non-chafing hitch Line to swivel	DOUBLE BECKET BEND  Safe hitch, line to loop.

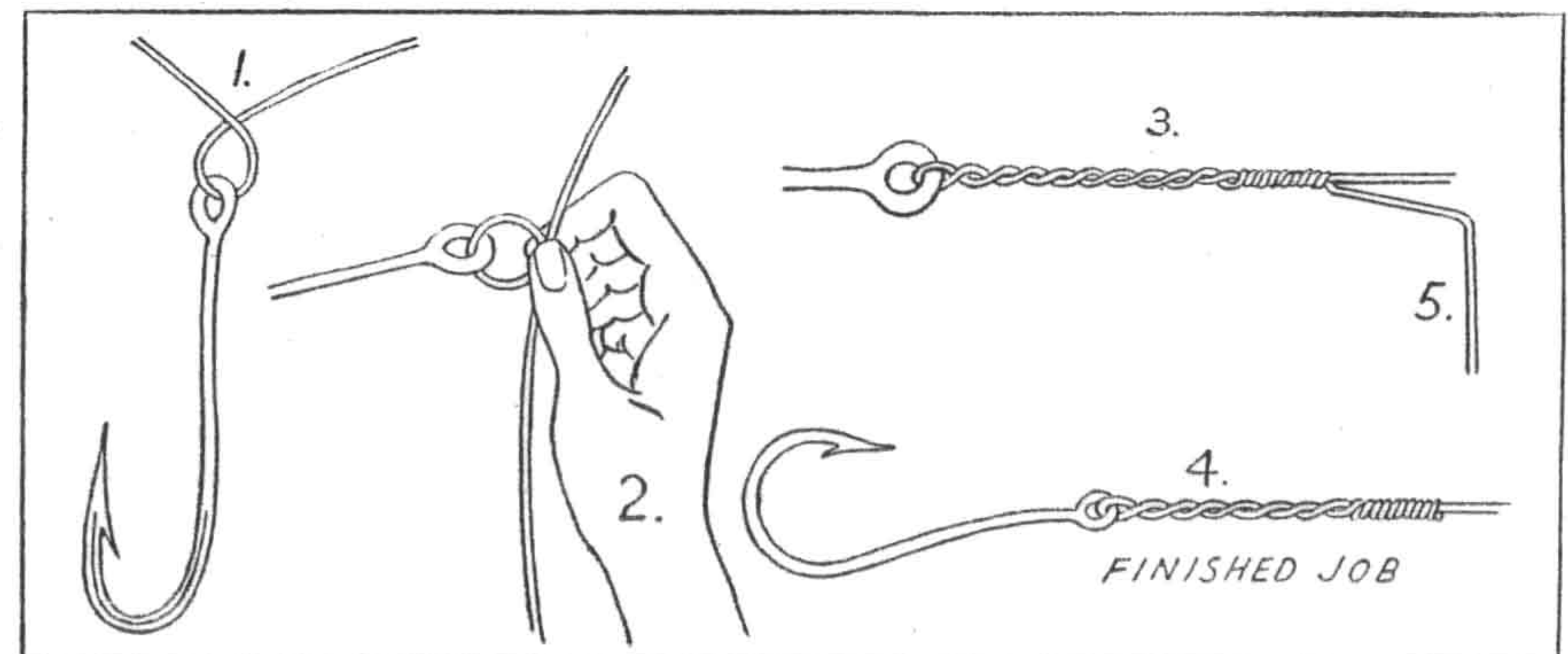
LEFT HANDED FISHERMEN

Old model reels could be used either right or left handed, but this is impossible with today's modern construction. Reels intended for left handed use have to be reversed, as the driving gears will slip out of mesh, when used the wrong way. All Penn Reels are listed in left hand models, and carried in stock by Penn Reel dealers for your convenience.

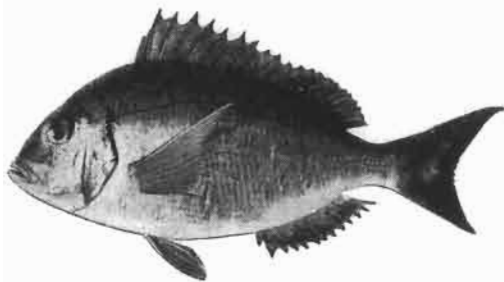
HOW TO TIE LEADER WIRE TO HOOK OR LURE

Perhaps more large fish are lost because of improperly made up wire leaders than for any other reason. Making up a leader is an art learned by patient practice, after being acquainted with the basic elements involved. It is well to practice with the thinner gauged wires first, a #9 or #10 is a good size with which to begin, as these sizes are easier to work than the heavier gauged sizes. A strong right thumb and index finger are needed for the job. This procedure should be followed:

1. Leader length should be from 6' to 15'. Push 3" to 4" of the working end of the wire through the eye of the hook, swivel, or whatever lure is to be tied. Hold the hook between thumb and index finger of left hand.
 2. With right thumb and index finger, sharply bend the wire across the hook eye, so that wire end and standing part of wire point in opposite directions, and touch at point of crossing.
 3. With the wire thus crossed, hook held in left hand, firmly grip, with right thumb and index finger, the wire at point of juncture, and begin twisting the wire to the right, tightly, until 10 to 12, hard, even, twists have been turned into wire. Both wires must be twisted equally, and the twist must be short and hard, in order to hold.
 4. Make 10 to 12 round turns with short end of wire around the standing part (long wire), being careful to lay each turn tightly against the preceding one.
 5. Bend the remainder of short end, in its middle, at an angle of 90°, grip the bent end firmly with the right thumb, close to the 90° bend. Lift the remainder of the short end of the wire in a 180° arc toward the standing part of the wire, thereby breaking off the end of the wire close to the last round turn, leaving no sharp end.
- Don't become discouraged if your first few attempts do not prove successful. Keep trying, and watch a good charter boat skipper.



Know your salt water fish



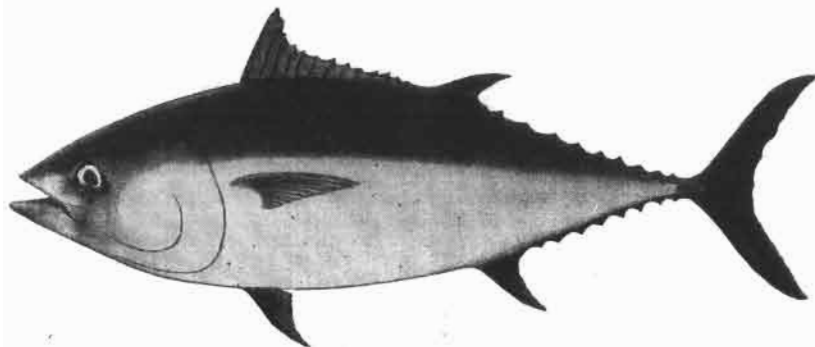
PORGY
Record Weight 5 lbs.



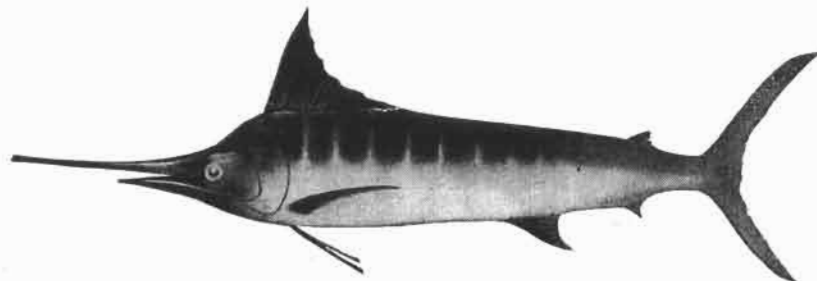
STRIPED BASS (Rock Fish)
Record Weight 73 lbs.



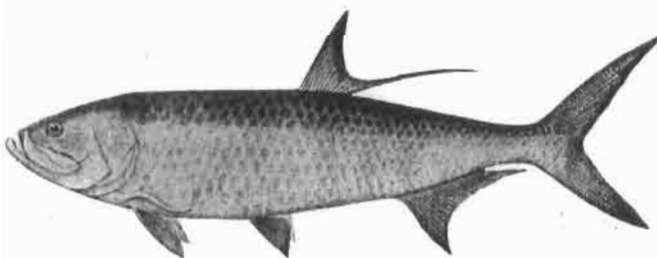
BLUEFISH
Record Weight 20 lbs.



BLUEFIN TUNA
Record Weight 977 lbs.



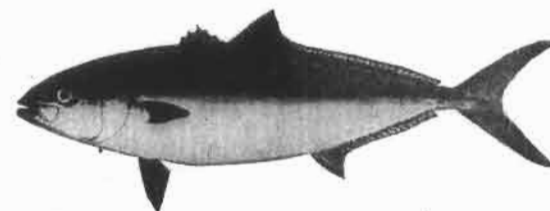
MARLIN (Striped)
Record Weight 692 lbs.



TARPON (Silver King)
Record Weight 247 lbs.

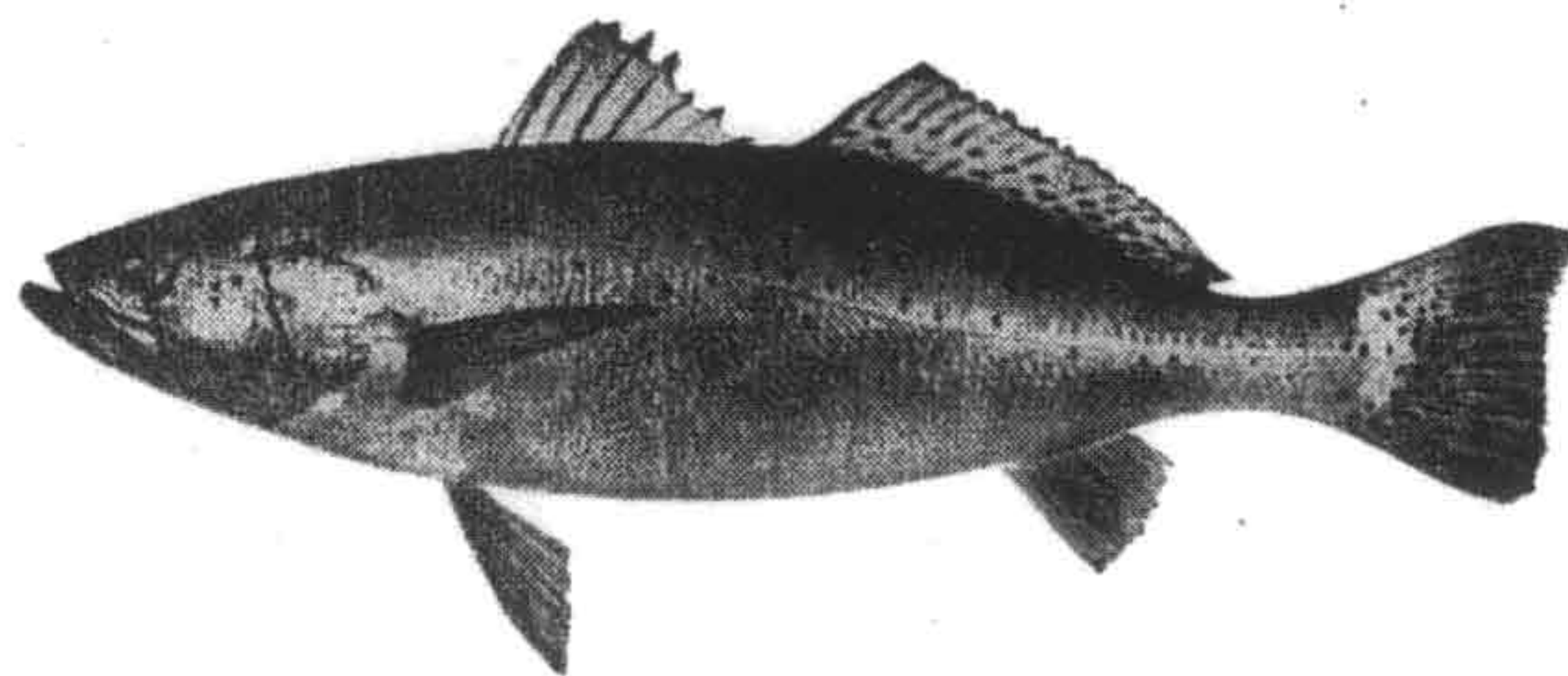


BARRACUDA (Sea Tiger)
Record Weight 103 1/4 lbs.

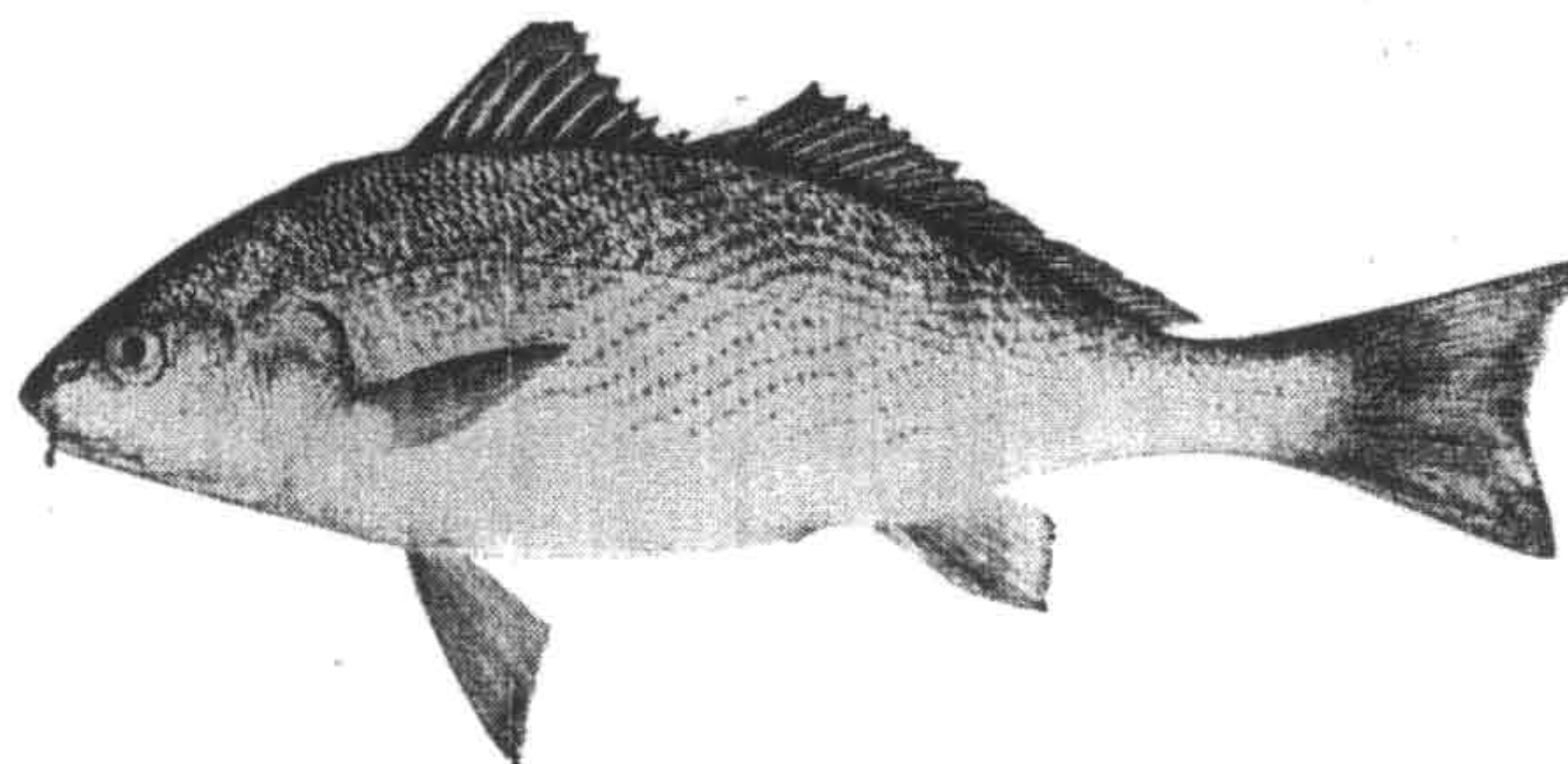


YELLOWTAIL
Record Weight 90 lbs.

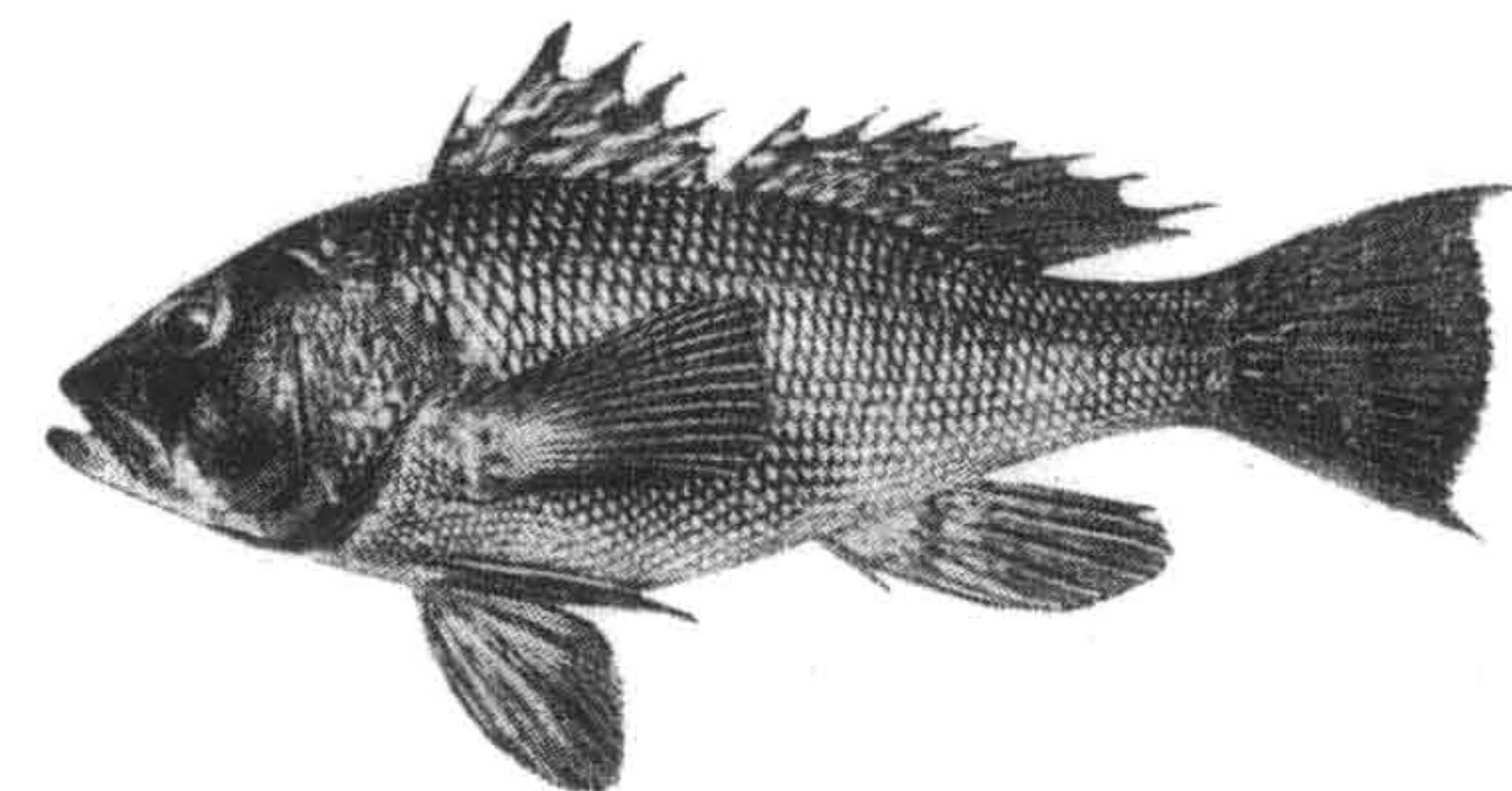
Know your salt water fish



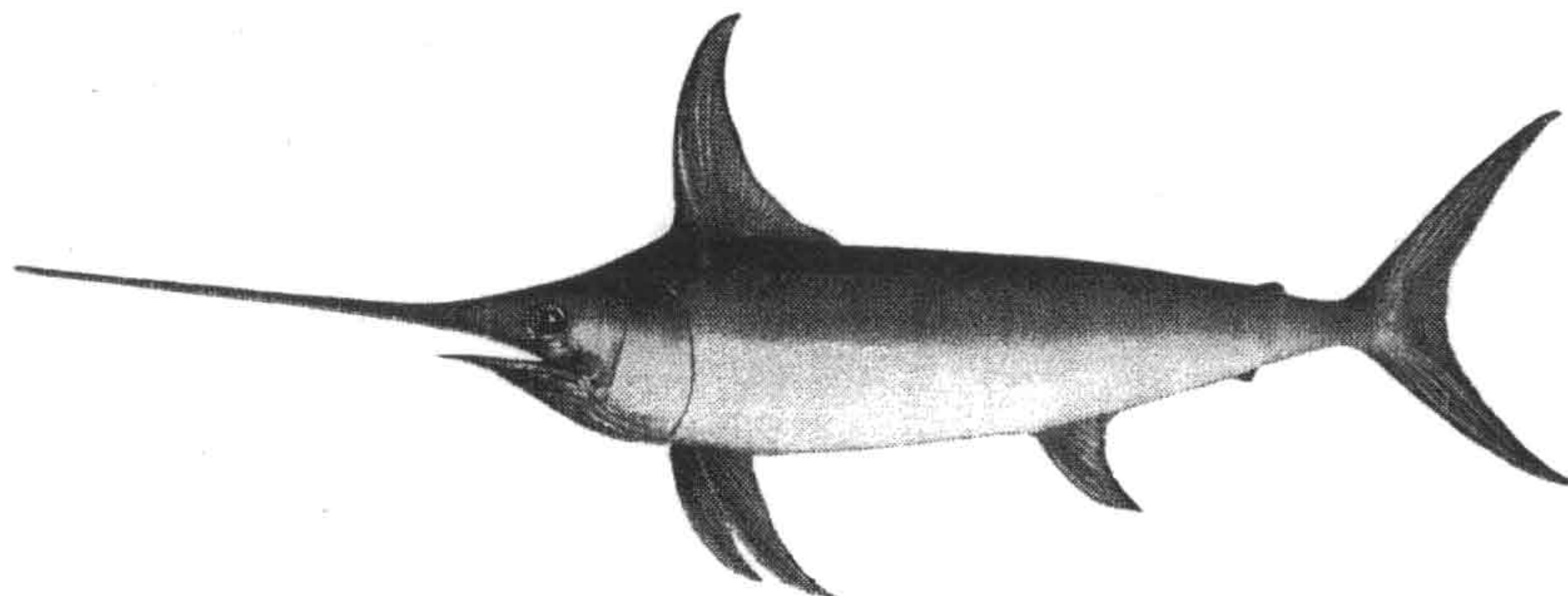
WEAKFISH (Sea Trout)
Record Weight 17 lbs. 8 oz.



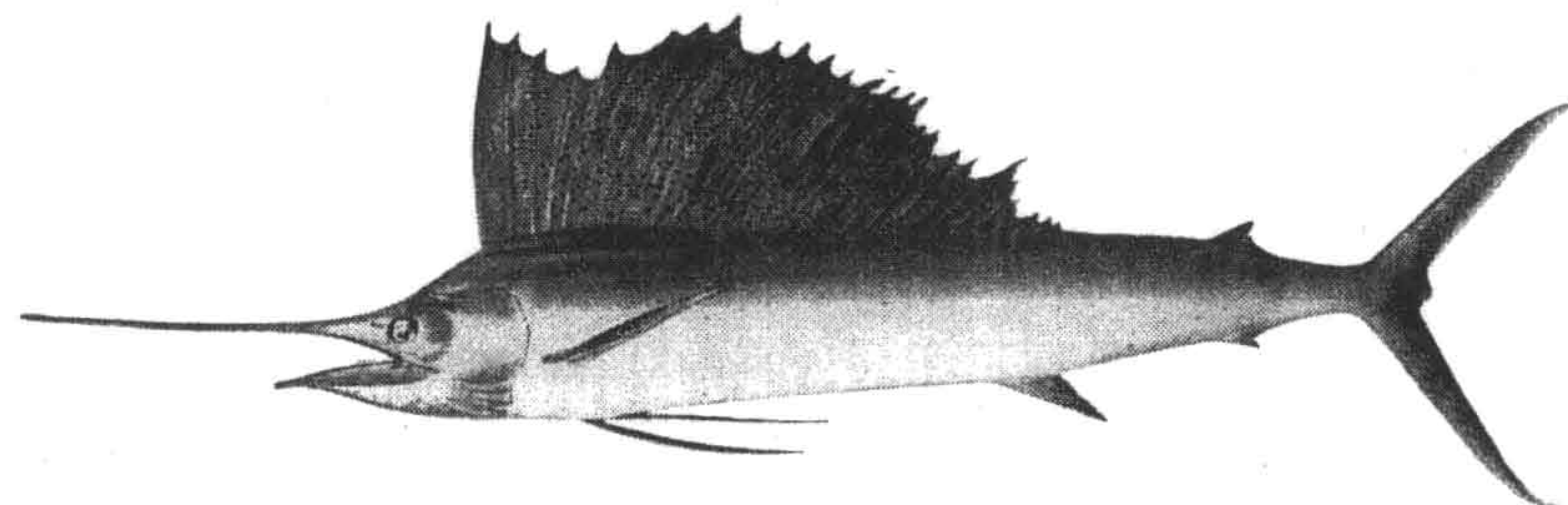
CROAKER (Hardhead)
Record Weight 7 lbs.



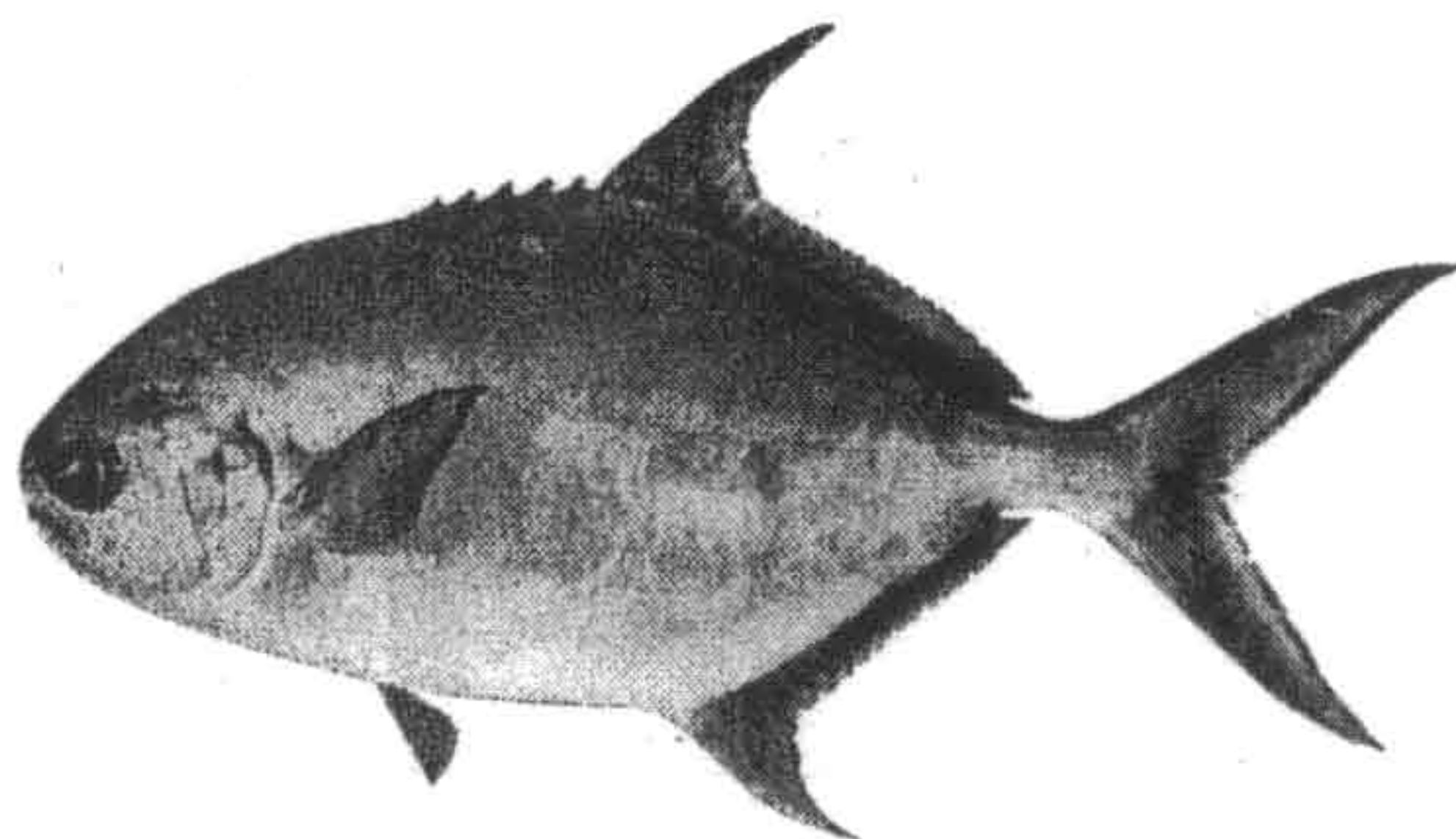
SEA BASS
Record Weight 8 lbs.



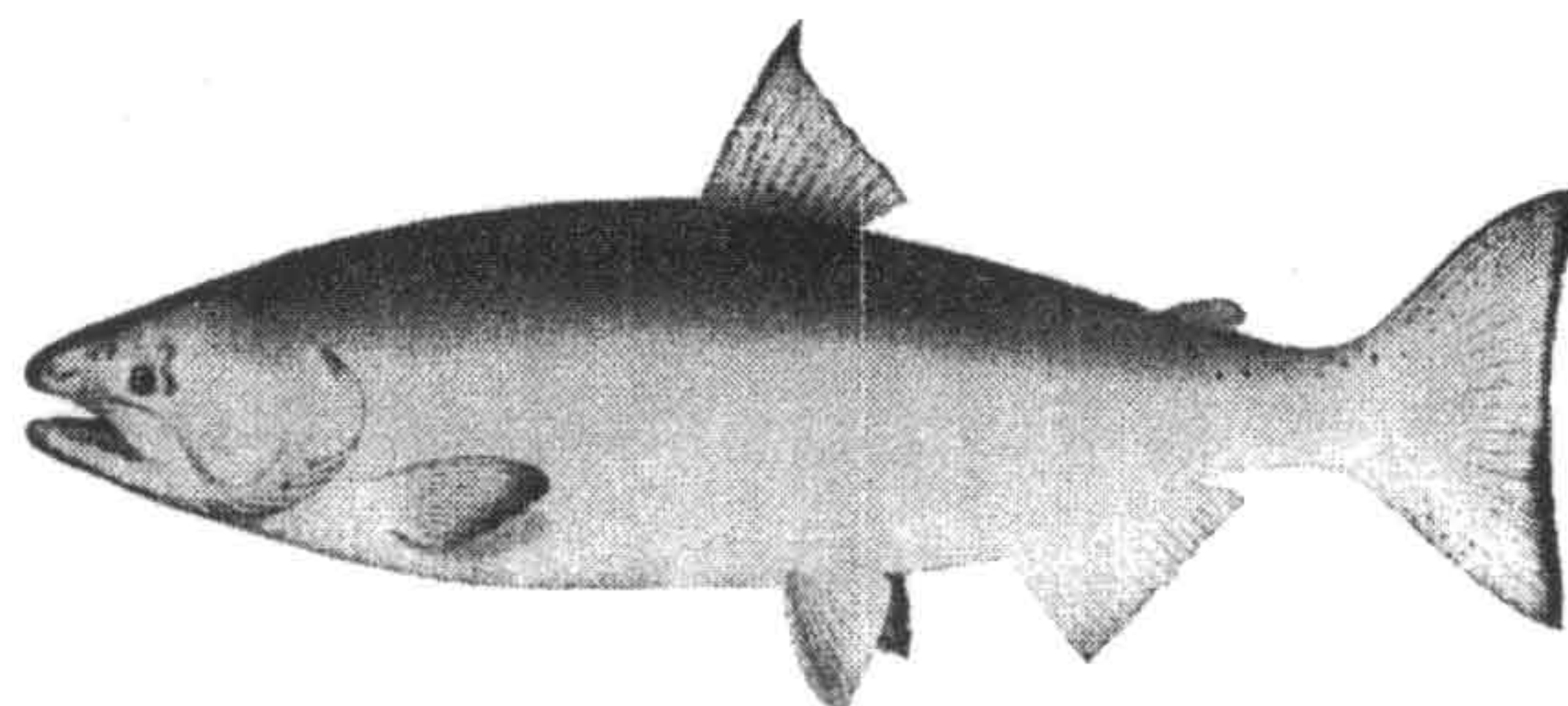
BROADBILL SWORDFISH
Record Weight 860 lbs.



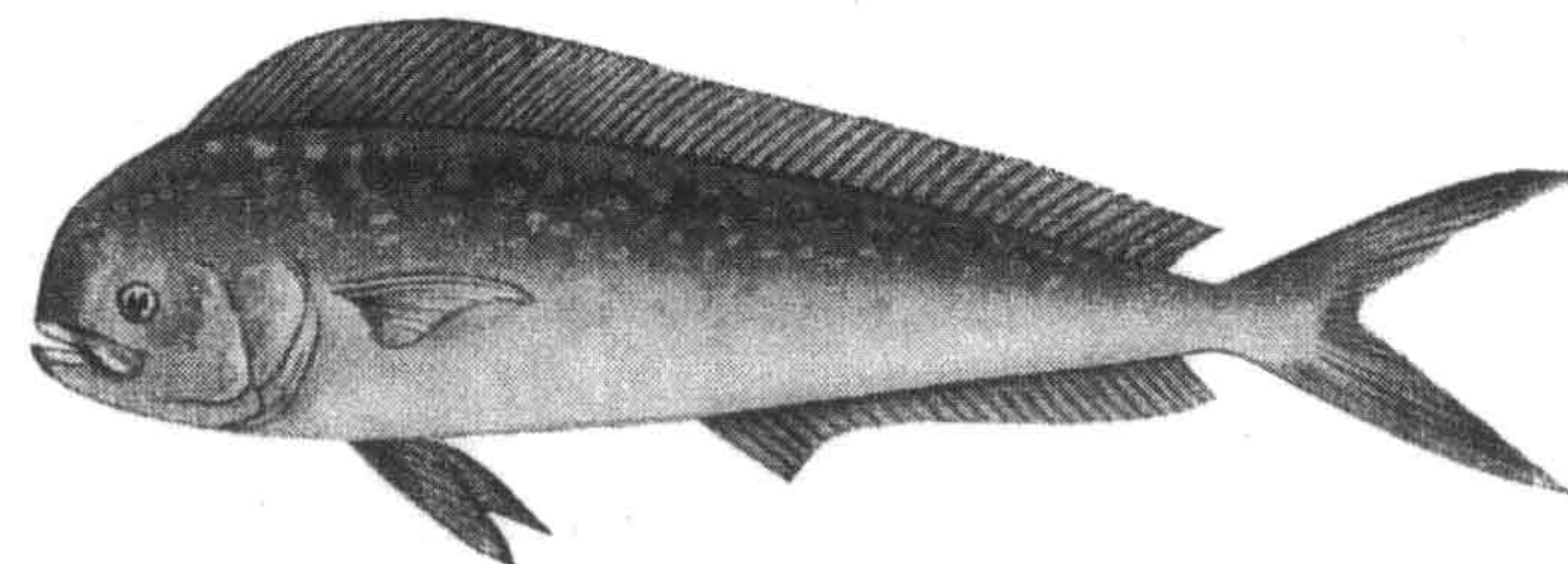
SAILFISH
Record Weight 221 lbs.



POMPANO
Record Weight 30 lbs.

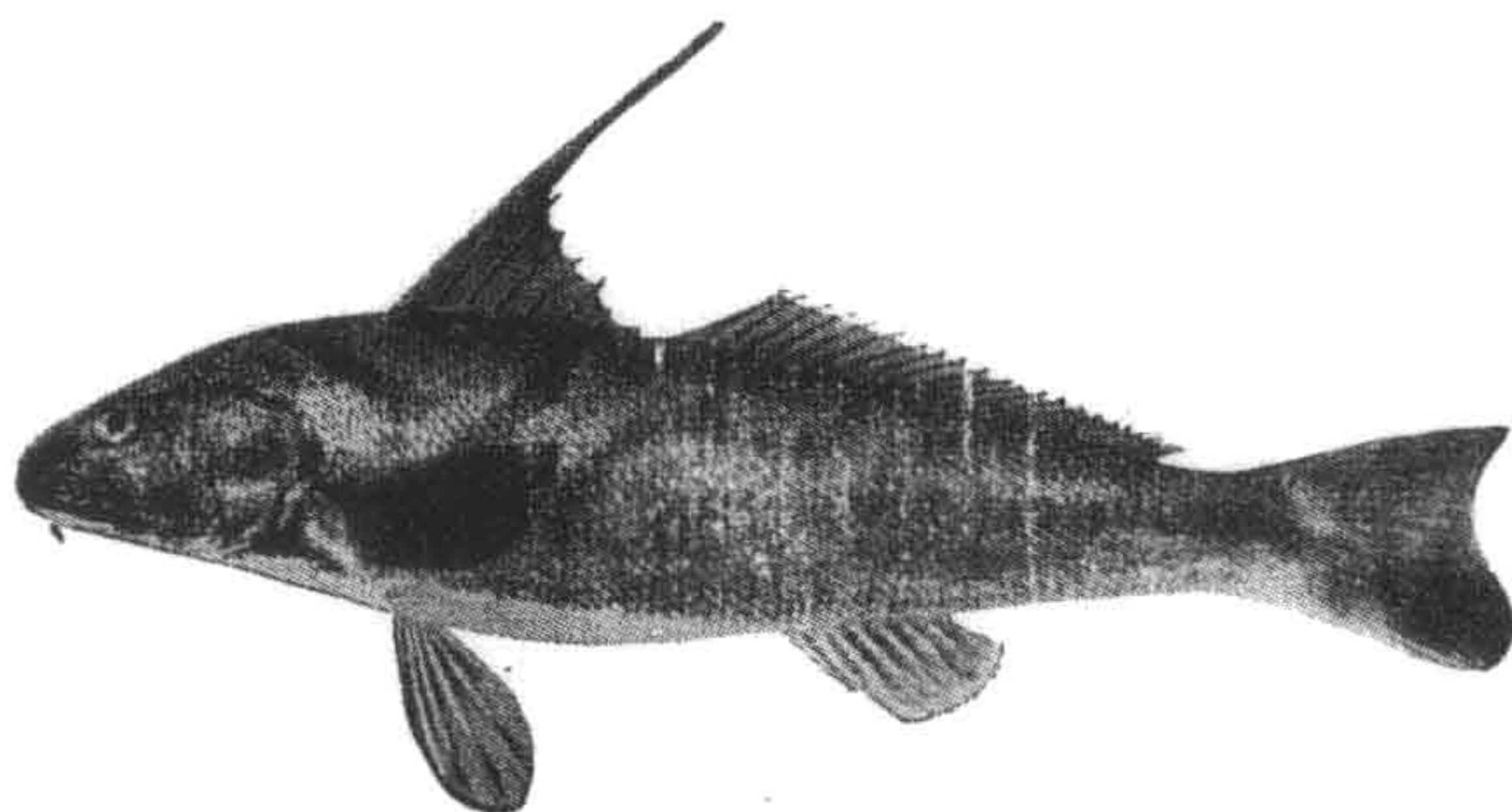


CHINOOK SALMON
Record Weight 83 lbs.

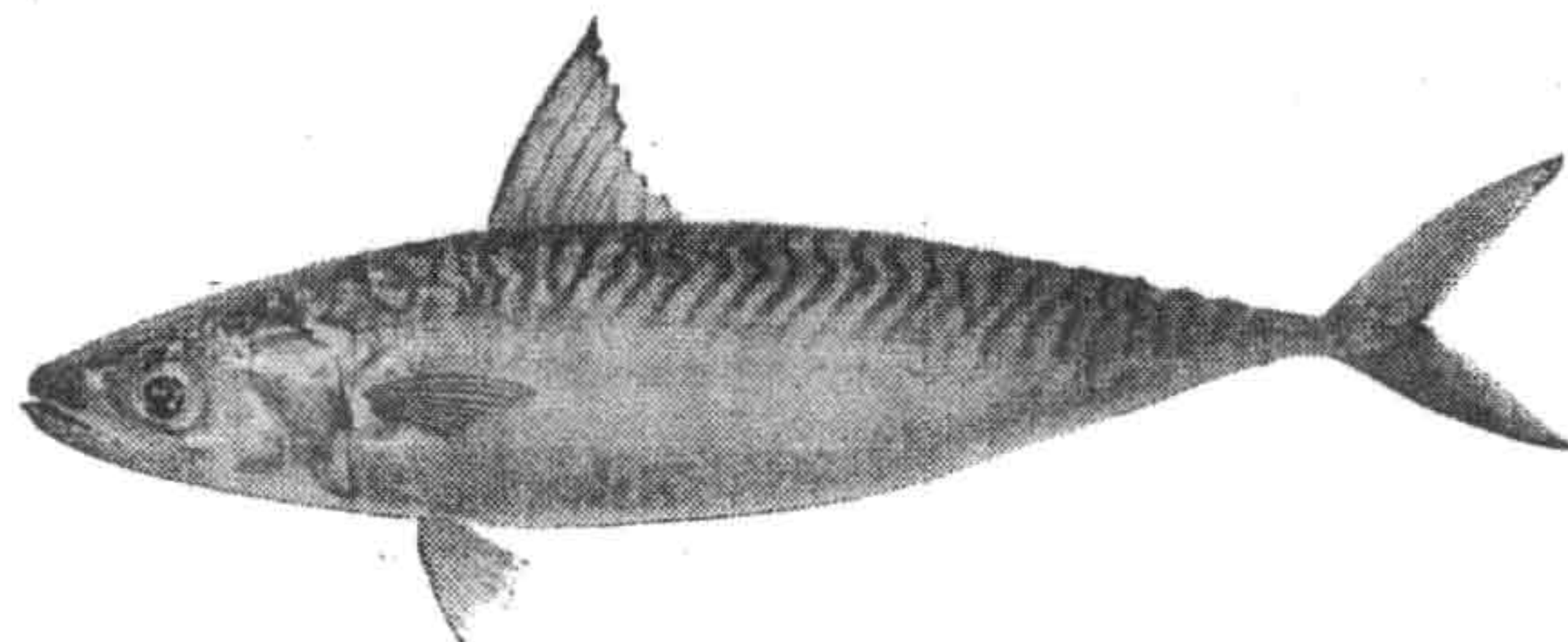


DOLPHIN (Dorado)
Record Weight 75 lbs.

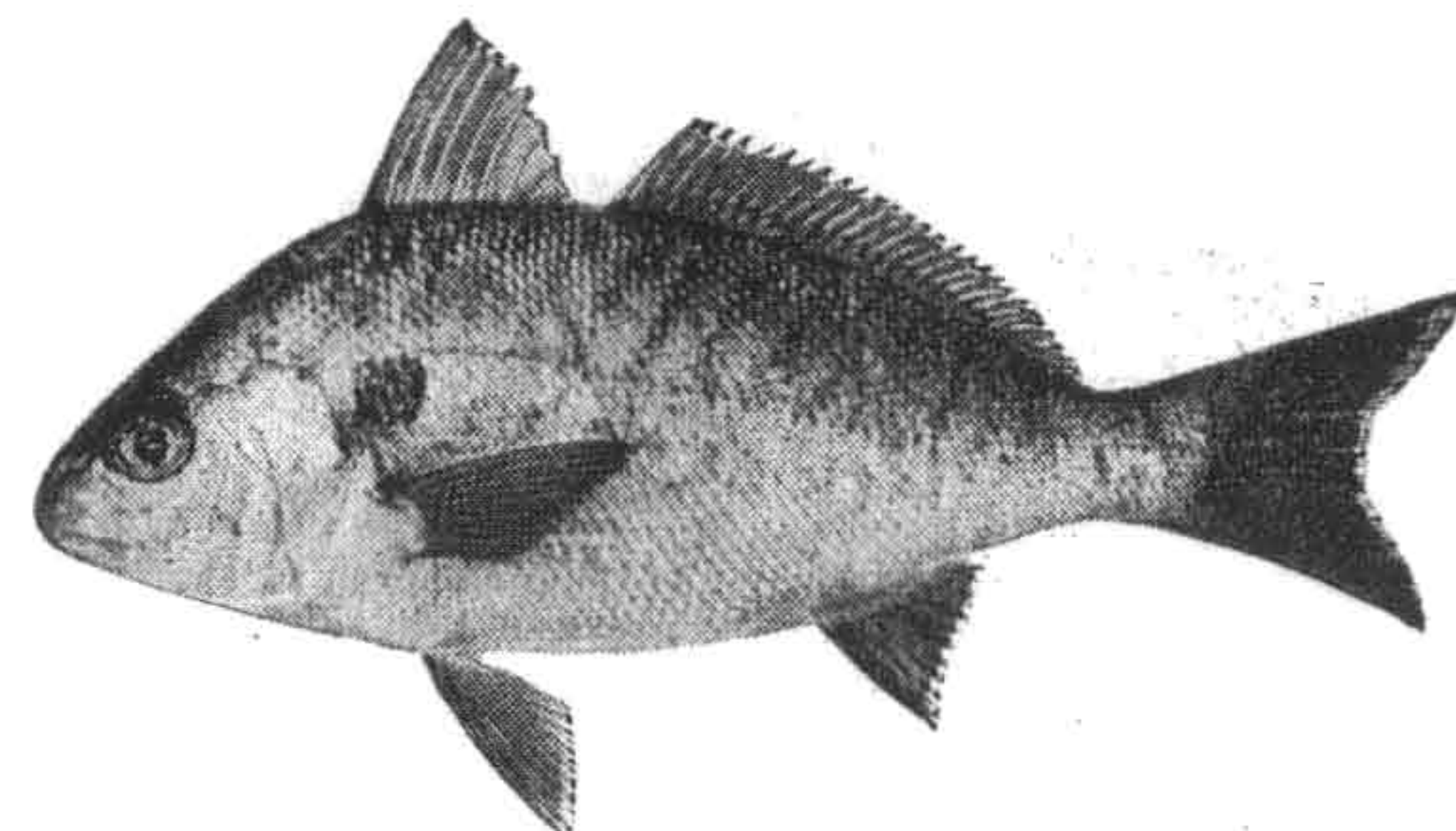
New York salt water fish



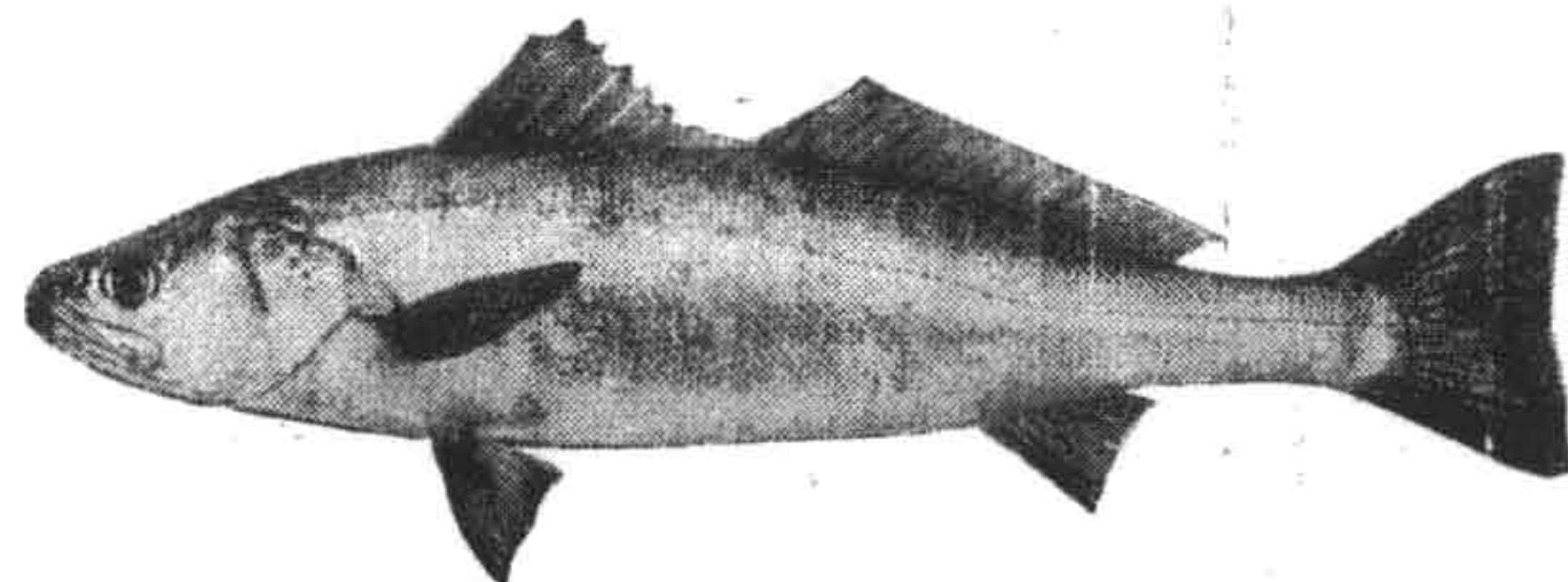
KINGFISH
Record Weight 6 lbs.



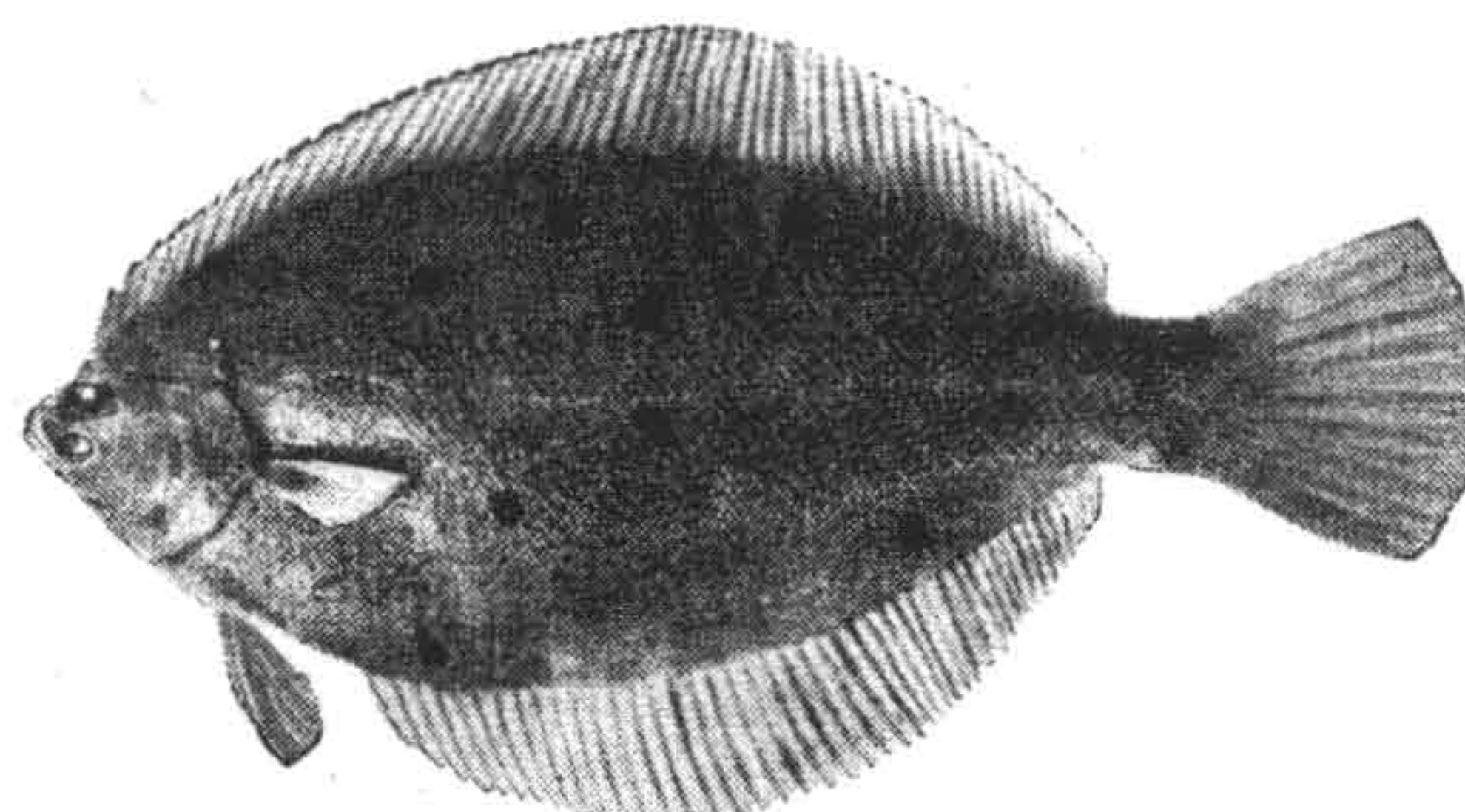
MACKEREL
Record Weight 8 lbs.



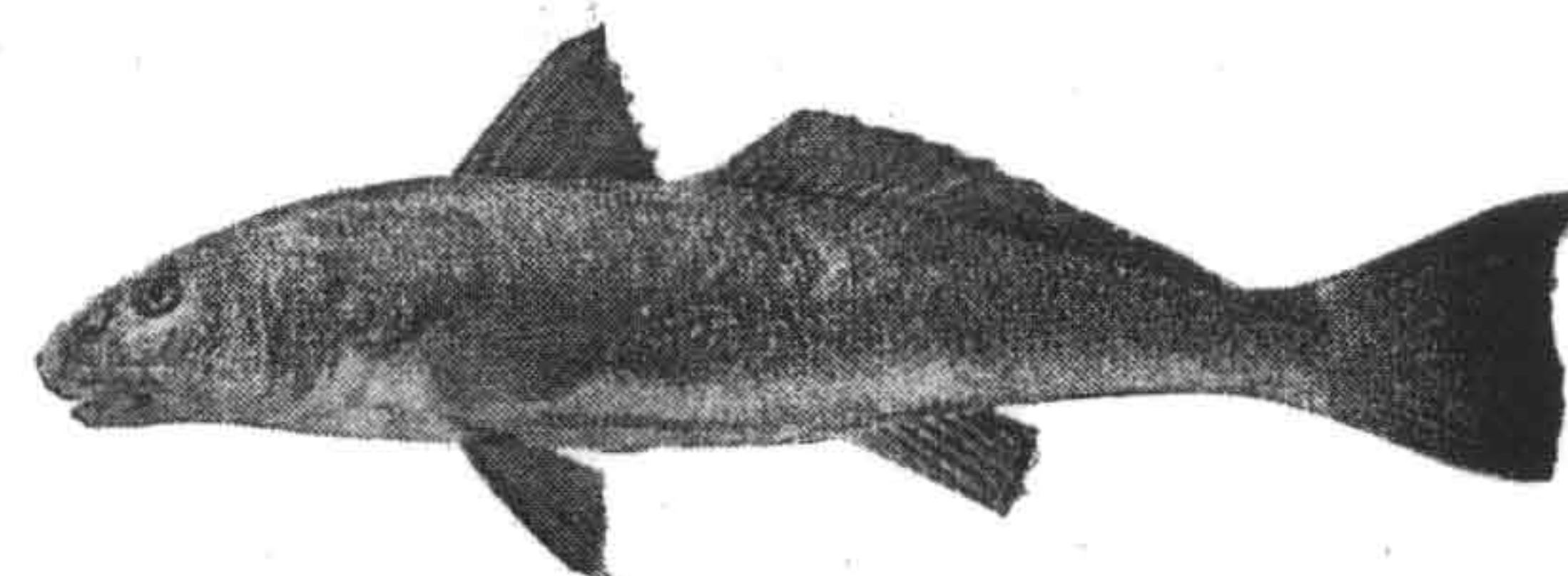
SPOT
Record Weight 1 1/2 lbs.



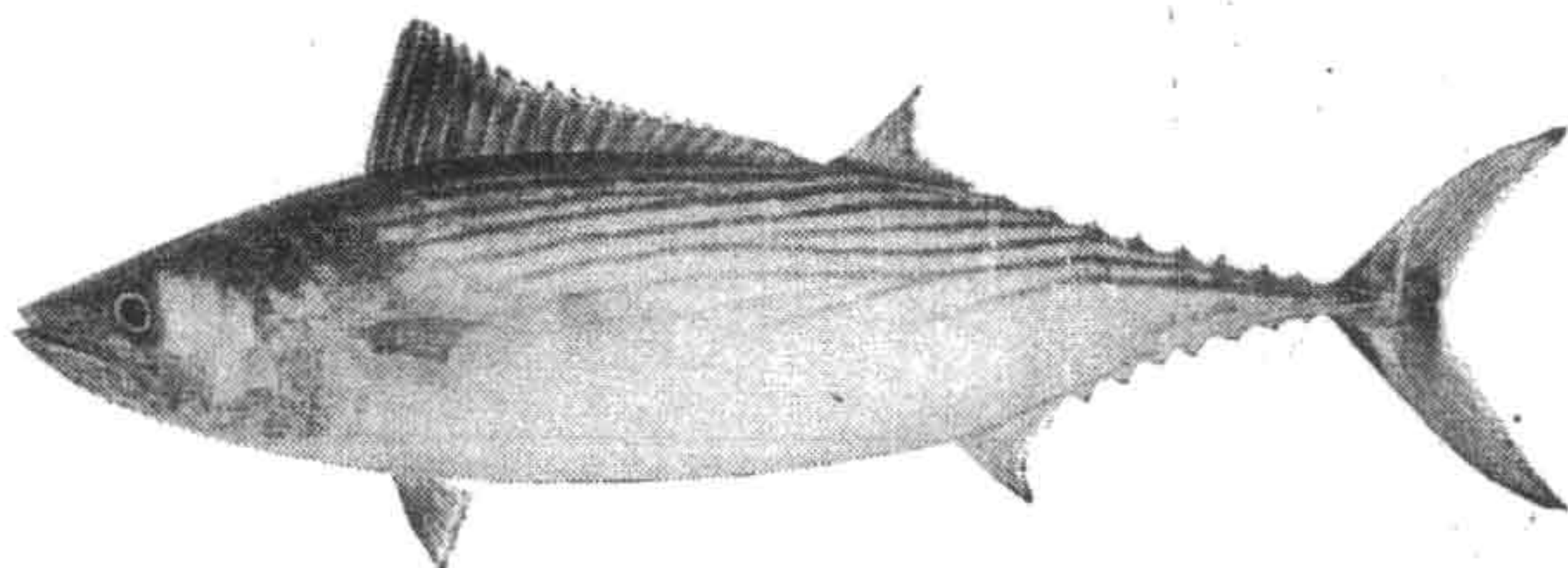
WHITE SEA BASS
Record Weight 77 lbs. 4 oz.



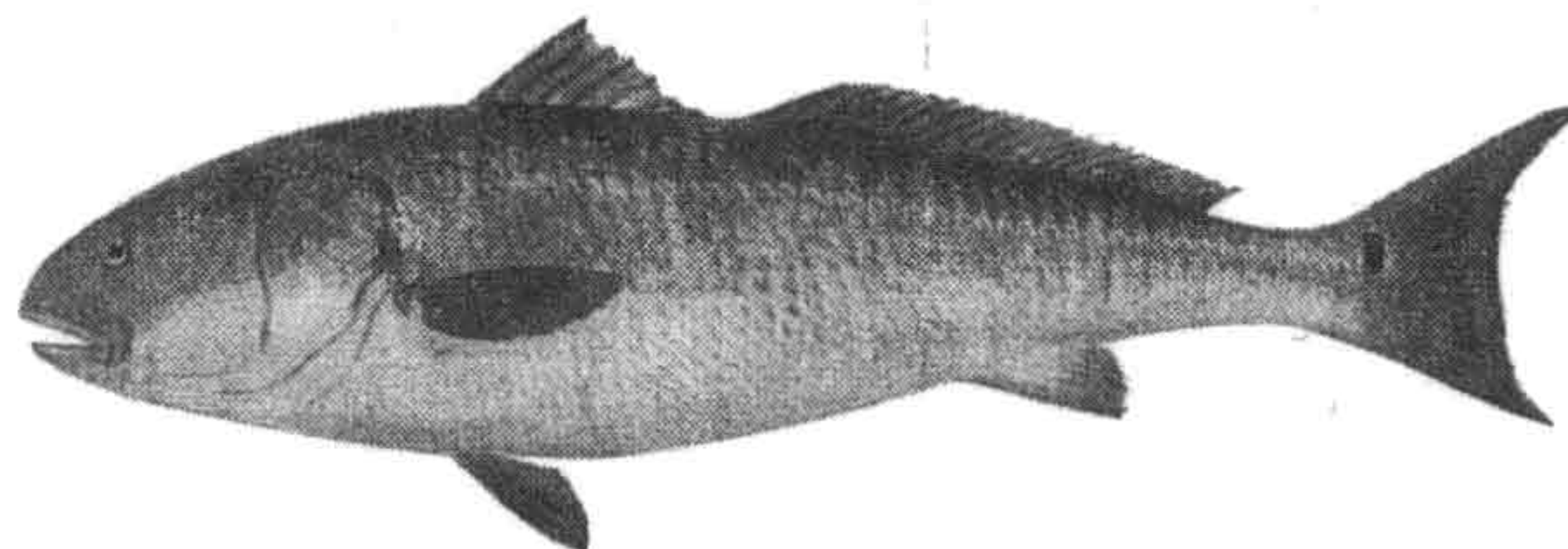
FLOUNDER
Record Weight 20 lbs.



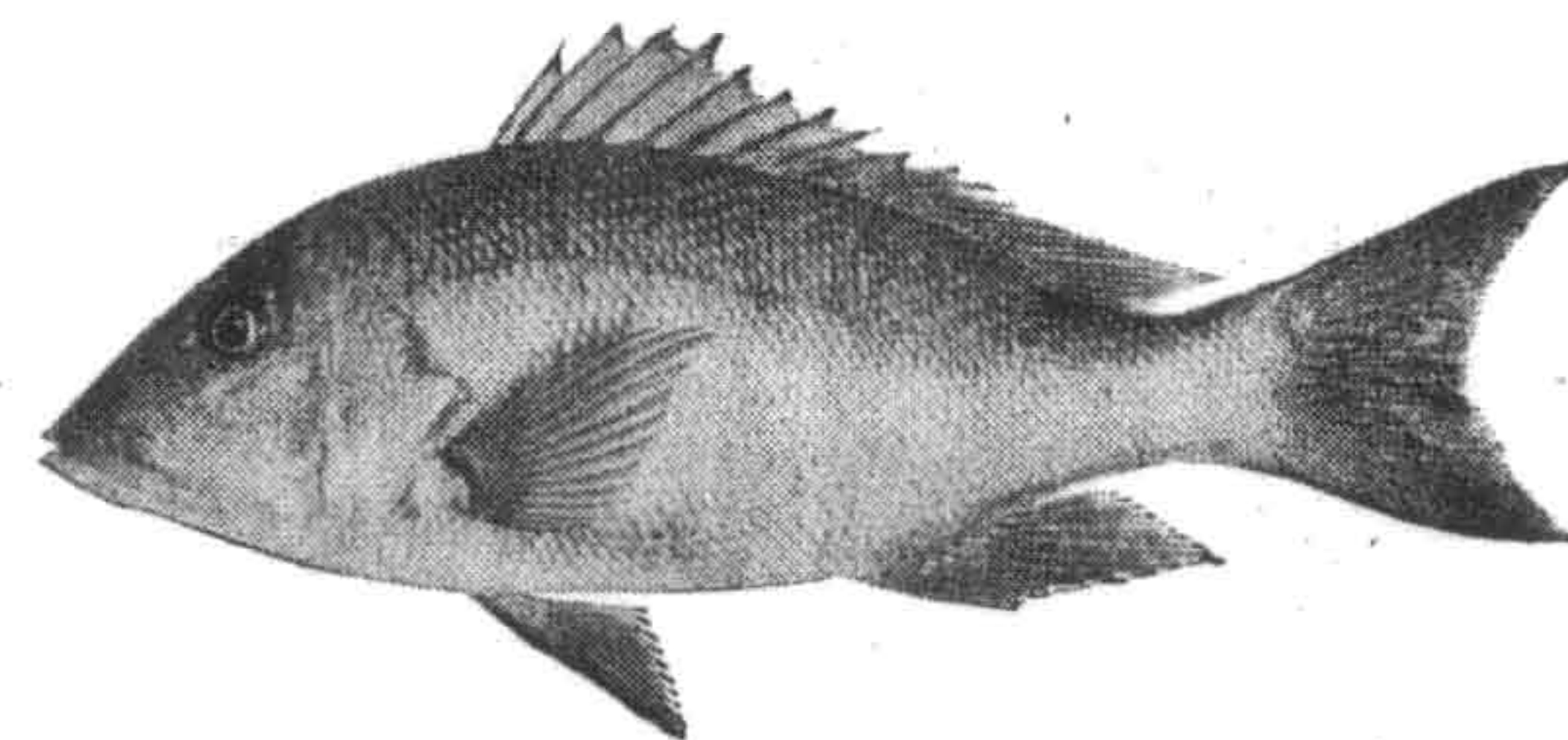
CORBINA
Record Weight 9 lbs.



BONITO
Record Weight 39 lbs. 15 oz.



CHANNEL BASS (Red Drum)
Record Weight 83 lbs.



RED SNAPPER
Record Weight 12 lbs.

Penn Reel Catches



Fishing the open waters outside Veracruz harbor, where tarpon are more difficult to catch than in other parts of our sister republic, Mrs. Anna B. de Araujo caught this 6' 5", 130 pounder, to win the International Veracruz Deep Sea Fishing Rodeo.



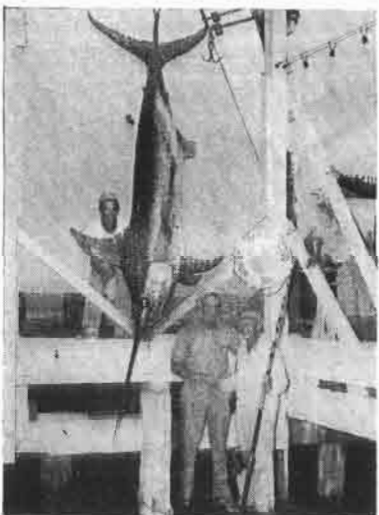
Capt. "DEAD EYE" Johnson, of Balboa, Calif., has a way with marlin. Picture shows the captain and his wife Edna with a beauty of 164½ pounds, caught with the help of a 9/0 Penn Senator.



Capt. Ernal Foster, Hatteras, N. C., fought this 475 pound Blue Marlin, 11' 2" long, for 2¼ hours, with a glass rod and 9/0 Penn Senator reel, before this shapely warrior was finally subdued.



Mrs. Rose Ramirez, Oceanside, Calif., won eighth place, and lead in the women's division, 1952 San Diego Yellowtail Derby, with a "Yellow" of 40 lb. 13 oz. Mrs. Ramirez praises the No. 200 Surfmaster for the assist it gave in making her catch.



Capt. George Verity congratulates his angler-patron, Mr. Edward Buecher, of Stratford, Conn. (he graciously accepts), on the catch of a shapely Broadbill Swordfish, 520 pounds, in 2¼ hours, on a 12/0 Penn Senator and 36 thread line.



Mrs. Stafford L. Sands, of Nassau, Bahamas, caught this 55½ pound record Wahoo off West End, Bahamas, on 17 pound test line, and a 3/0 Penn Senator reel.
Sportin' tackle—Sportin' fish—Sportin' achievement!



Pictured is a 329 pound black sea bass, caught from the Kiara, Capt. Walt Anderson, Pacific Sportfishing Dock, by Parky Jacobs, Long Beach, Calif., in a lively 2¼ hour tug-of-war. Parky, assisted by a Penn Delmar No. 285, emerged winner.



Mrs. Don Allison, Los Angeles, Calif., and her 759 pound women's world record Broadbill Swordfish, taken off Iquique, Chile, Reel 14/0 Senator. Says Mrs. Allison, "My husband and I have used your reels and found them very satisfactory." Printed in U.S.A.