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N^o 6044



A.D. 1906

Date of Application, 13th Mar., 1906

Complete Specification Left, 27th Aug., 1906—Accepted, 7th Mar., 1907

PROVISIONAL SPECIFICATION.

“Improvements in and relating to Fishing Reels”.

I, WILLIAM ROBERTSON, of 27 Wellington Street, in the County of the City of Glasgow, Fishing Tackle Manufacturer, do hereby declare the nature of my invention to be as follows:—

This invention has reference to improvements in and relating to fishing reels, and comprises an improved method or combination of devices for regulating the brake or tension on the line and reel so that same can be easily and expeditiously adjusted to suit the size of fish hooked and to be “played”.

The reel would be formed in two main parts of a usual construction of metal, or of wood as in the case of a “Nottingham” reel, a main fixed enclosing circular framework with solid and open ends respectively and having a central spindle and a revolving pulley part mounted over spindle on which the fishing line is wound and unwound, and fitted with the usual wheel and ratchet devices.

This revolving pulley part according to my improvements is formed of a dished or recessed shape on its inner and also on its outer exposed cheek round the centre spindle, and the latter is formed of a D or equivalent section with hollow screw threaded centre.

Over this D shaped spindle a washer is mounted having a central boss of like shape, and over the spindle in front of the washer a sleeve is mounted with a helical or like spring between sleeve and spindle bearing up against the washer. Into the centre screw threaded spindle a screw threaded pin works with a crosscut head and preferably a mill headed side edge on head, so as to adjustably tighten up the spring and sleeve against the washer and so put the desired brake on the reel and tension on the line. Instead of the central spindle being formed hollow the screw threads may be formed on its outer surface and the hand adjusting screw be formed hollow and be internally screw threaded to give the desired adjusting action.

Dated the 12th March, 1906.

W. R. M. THOMSON & Co.,
96 Buchanan Street, Glasgow,
Agents.

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COMPLETE SPECIFICATION.

“Improvements in and relating to Fishing Reels”.

I, WILLIAM ROBERTSON, of 27 Wellington Street, in the County of the City of Glasgow, Fishing Tackle Manufacturer, do hereby declare the nature of my invention and in what manner the same is to be performed to be particularly

[Price 8d.]



Robertson's Improvements in and relating to Fishing Reels.

described and ascertained in and by the following statement, reference being made to the accompanying drawings.

This invention has reference to improvements in and relating to fishing reels, and comprises an improved combination of devices for regulating the brake or tension on the line and reel so that same can be easily and expeditiously adjusted 5 to suit the size of fish hooked and to be "played."

Heretofore brakes have been fitted on reels in the form of springs mounted on spindles and compressed by washers and thumb screws; but the essential improvement of my invention is a sleeve mounted on a D or equivalent shaped spindle and which by the aid of a spring or its equivalent puts an adjustable brake 10 pressure on the reel.

And in order that my said invention and the manner of carrying same into practice may be properly understood I have hereunto appended a sheet of explanatory drawings in which Figure 1 is a sectional elevation of a complete reel having my improvements applied thereto. And Figure 2 is a view at right 15 angles to Figure 1 looking at the front face of reel. Figure 3 shows enlarged detached views of the D shaped internally screwed spindle, and Figure 4 similar views of the like shaped washer, and Figure 5 is a detached view of the tightening up hand operated screw. Figure 6 is a detached view showing the application of an indiarubber washer in substitution for a helical spring; and Figure 7 20 is a like view showing the substitution of an externally screwed spindle and internally screwed nut.

Referring to these drawings:—

The reel would be formed in two main parts A, B, of a usual construction of metal, or of wood as in the case of a "Nottingham" reel, a main fixed enclosing 25 circular framework A with solid and open ends respectively; and having a central spindle A¹ and a revolving pulley part B mounted over spindle A¹ on which the fishing line is wound and unwound and fitted with the usual wheel B¹ and ratchet devices.

This revolving pulley part B is formed of a dished or recessed shape on its 30 inner cheek *b* and also on its outer exposed cheek *b*¹ round the centre spindle A¹ and the latter is formed of a D or equivalent section at the part *a* with hollow screw threaded centre.

Over this D shaped spindle A¹ *a*, which is of a known type a washer *c* is mounted having a central boss *c*¹ of like shape, and over the spindle A¹ in front 35 of the washer *c* by my improvements a sleeve *d* is mounted with a helical or like spring *e* protected between sleeve *d* and spindle and bearing up against the washer *c* on the front face of reel. Into the centre screw threaded part *a* of spindle A¹ a screw threaded pin *f* works with a crosscut head *f*¹ and preferably a mill headed side edge on head, so as to adjustably tighten up the spring *e* and 40 sleeve *d* against the washer *c* and so put the desired brake on the reel and tension on the line.

In the modification shown in Figure 6, an india-rubber washer *e*¹ (or it might be a metallic blade spring) is shown as substituted for the helical spring *e* to 45 give the spring or resilient action, and the sleeve *d* is shown as formed with a flange *d*¹ to bear up against the washer *e*¹, and so act both as protector and tension guiding device.

Instead of the central spindle A¹ being formed hollow at *a*, the screw threads may be formed on its outer surface of the part *a* as shown in Figure 7, and the hand adjusting screw *f*¹ be formed as a hollow disc *f*² and be internally screw 50 threaded to give the desired adjusting action, while a stop cap *a*² may be screwed or fitted on end of screwed spindle part *a*.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is:—

In fishing reels, devices for regulating the brake power on the reel and tension 55

Robertson's Improvements in and relating to Fishing Reels.

on the line, comprising the combination of a D or equivalently shaped screw threaded spindle with correspondingly shaped washer mounted on same, a sleeve, a spring or its equivalent, and an operating screw spindle or disc, substantially as herein described in reference to and shown in the accompanying drawings.

5 Dated the 25th August, 1906.

W. R. M. THOMSON & Co.,
96 Buchanan Street, Glasgow,
Agents.

Redhill: Printed for His Majesty's Stationery Office, by Love & Malcomson, Ltd.—1907.

[This Drawing is a reproduction of the Original on a reduced scale.]

FIG. 1.

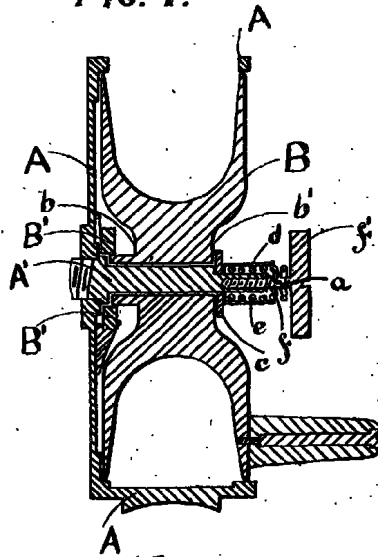


FIG. 2.

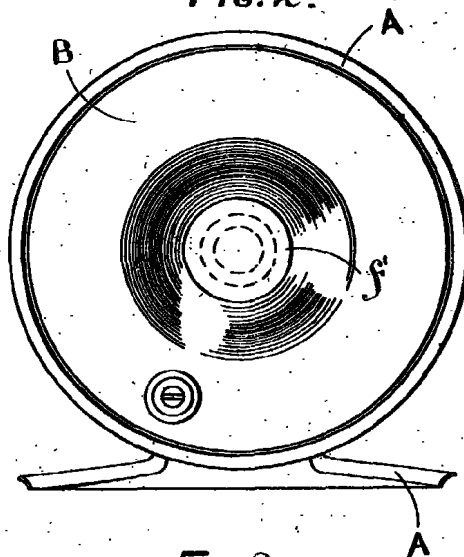


FIG. 3.

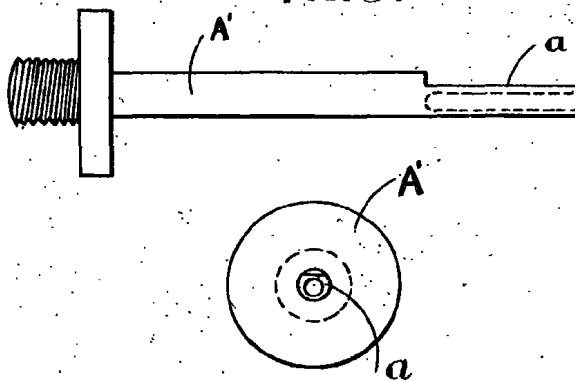


FIG. 6.

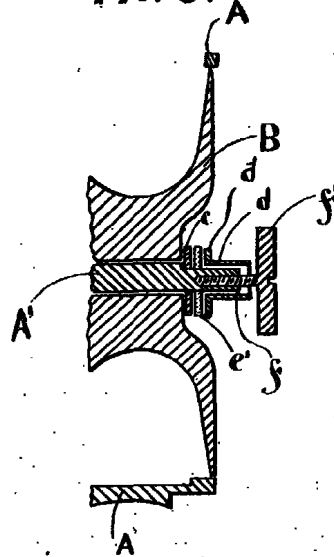


FIG. 7.

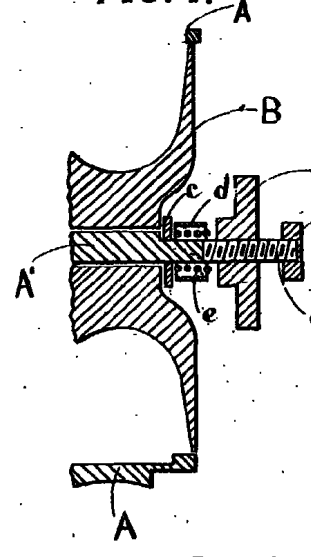


FIG. 4.

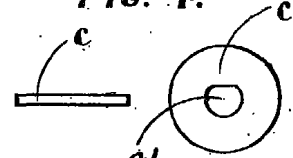


FIG. 5.

