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A.D. 1888, 27th FEBRUARY. N° 2900.

COMPLETE SPECIFICATION.

Improvements in Fishing Reels.

I JOHN BROWN MOSCROP of Lorne Villa, Urmston, in the County of Lancaster, Engineer do hereby declare the nature of my said invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement:—

- 5 The object of this invention is improvements in the outer framework of the reel whereby the same is rendered more rigid in construction and steadier in action than when cross studs are used to connect the front and back plates together and also more commodious internally to receive the fishing line. The improvements further relate to the mode of securing the reel in position upon the central boss or axis and the ventilation of the interior of the reel so as to facilitate the quick drying of that part of the line which is wound nearest the axis.

- 10 On the accompanying drawing Fig. 1 is a front exterior view and Fig. 2 a transverse or side sectional view of a fishing reel embracing my improvements. Figs. 3 and 4 are side sectional views respectively of the outer framework and of the reel both shewn separately and Fig. 5 is a front view of the hollow boss of the reel shewing the spring ring in position.

- 15 In performing my invention I construct the outer part of the frame in one brass or other suitable metal casting marked *a* and with suitable orifices formed therein all round to lighten it and also to permit the fishing line to pass through. The opposite side of the improved frame is open to allow the reel *d* to pass in and out sideways and to slide on the hollow boss or axis *e*.

- 20 To secure the reel *d* (when in position in its frame) and with facility to revolve upon its axis I form an annular groove *f* around the hollow stationary boss or axis *e* in which I insert a steel or other spring wire ring *g* which when distended (as seen in 25 Fig. 5) is of slightly larger diameter than the axis *e* but capable of being squeezed entirely into the said groove by reason of the ends of the ring *g* which are normally separated a short distance (as seen in detached view Fig. 6.) being capable of approaching each other in putting on or removing the reel. It will now be apparent that by having a corresponding groove *h* formed on the inside of the bore of the 30 reel *d* and immediately opposite to that in the boss *e*, that when the two grooves *f*

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and *h* come opposite each other the spring *g* will fly out and so secure the two parts together and which can only be separated again by the exercise of sufficient force to overcome the spring pressure.

And in order to ventilate the interior of the reel as aforesaid instead of winding the line down to the bottom of the reel I arrange a series of transverse bars or rods *i* separated sufficiently from each other and from the boss *e* to allow an air space *j* beneath and by having side openings *k* in the reel either alone or in combination with perforations *l* in the hollow axis I thus permit the entrance of currents of air for ventilating and drying purposes.

Having thus 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 :—

1st. The improvements in fishing reels—substantially as hereinbefore described.

2nd. In fishing reels the improved construction and arrangement of outer framework substantially as and for the purposes hereinbefore described and illustrated on the accompanying drawing.

3rd. The mode of securing the reel in position upon its axis substantially as and for the purpose hereinbefore described and illustrated on the accompanying drawing.

4th. The improved construction and arrangement of internal parts whereby interior ventilation is secured in a fishing reel substantially as and for the purpose hereinbefore described and illustrated on the accompanying drawing.

Dated this 25th day of February 1888.

JOHN G. WILSON,
Agent for the Applicant.

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