

## Espacenet my patents list on 01-10-2018 15:54

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N<sup>o</sup> 16,233



A.D. 1911

*Date of Application, 13th July, 1911*  
*(Patent of Addition to No. 4391, 21st Feb., 1911)*  
*Complete Specification Accepted, 12th Oct., 1911.*

### COMPLETE SPECIFICATION.

#### Improvements in or relating to Fishing Reels.

I, ALBERT PERCY SCOTT, Engineer, of "Woodthorpe", Priory Road, Carisbrooke, Isle of Wight in the County of Hants, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

5 This invention relates to that type of fishing reels described in the Specification of my prior Application for Patent No. 4391 of 1911 wherein the balls in a ball bearing are so disposed and supported as to be adapted to lock the drum of the reel against removal from its spindle or release same.

10 This invention has for its object to provide an improved or modified construction of the reel described in the said prior application for patent.

According to this invention the spindle of the drum or spool is recessed or otherwise formed with a ball race and the balls which are carried in through holes in the hub of the drum or spool are locked or released respectively by retaining faces and gaps in or on a rotary or part rotary cap or cover or by a member actuated thereby.

15 The cap or cover may be conveniently mounted at the outer end of the hub of the drum whereby the usual retaining nuts or screws may be disposed with thereby avoiding the likelihood of the drum coming free by the accidental unscrewing of the retaining nut by the running of the drum.

20 The accompanying drawings illustrate one form of the invention.

Fig. 1 is a front elevation partly in section and Fig. 2 is a section of Fig. 1 on the line *a—b*. Fig. 3 is an enlarged detail view showing in section the parts in a position for releasing the drum. Fig. 4 is a side elevation of Fig. 3.

25 The spindle *a* is provided with a recessed ball race *a'* in which run the balls *b* which are carried in slots or holes *c* in the hub *d'* of the drum *d*; the balls protrude through the holes and are held in running position by the retaining faces *e* on the inside of the cylindrical cap *f*, as indicated to the right of Fig. 1 and in Fig. 2. Between the retaining faces *e* are provided gaps *g* which, when the cap is partly rotated are brought opposite the balls which being then 30 unsupported can freely move out into the gaps and thus permit the drum *d* to be removed, for as soon as the drum is pulled lengthwise of its spindle to draw it off therefrom, the balls ride up the curved sides of the ball race into the gaps *g* and the hub *d'* slips off the spindle and can be readily replaced when the balls fall back into position. The holes are bevelled or drawn over the balls so as 35 to retain the balls and prevent them falling out of position when the drum is removed from its spindle.

A pin *h* and gap or slot *i* are provided to determine the correct part rotary movement of the cap *f* and a spring pressed locking catch pin such as indicated at *j* is also provided to prevent the cap from being accidentally rotated by 40 the running of the drum. The cap may be screwed into position on an intermediate sleeve or collar *k* secured to the hub.

[Price 8d.]



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*Scott's Improvements in or relating to Fishing Reels.*

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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:—

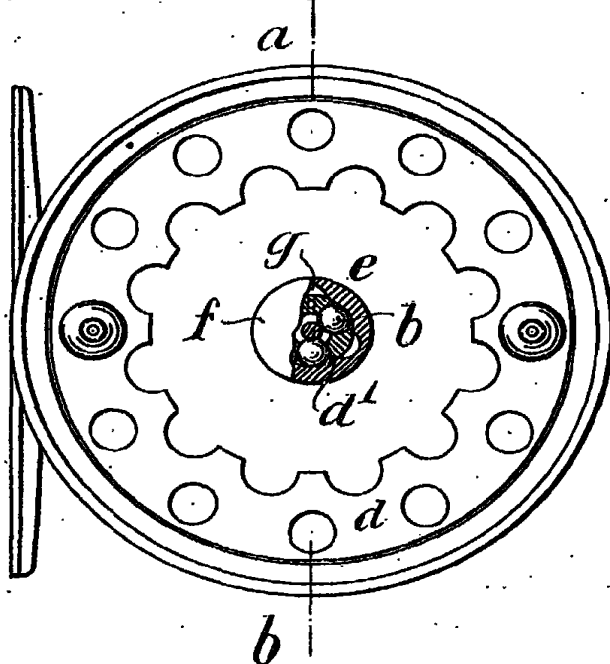
1. In a fishing reel or drum a locking or retaining device of the type referred to wherein an adjustable and part rotary cap or the like is provided with retaining faces for holding the balls of a ball bearing in running position in the hub of the drum and in engagement with a ball race on the spindle, said cap being also provided with gaps for releasing the balls from the ball race and thereby permitting the removal of the drum substantially as set forth. 5
2. The improved device for locking and releasing the spools of fishing reels substantially as herein set forth with reference to the accompanying drawings. 10

Dated this 13th day of July, 1911.

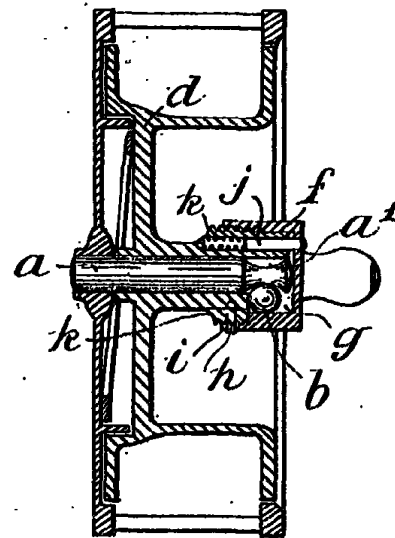
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Chartered Patent Agents.

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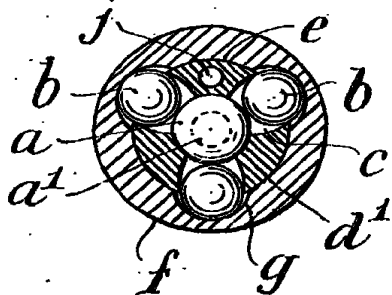
*Fig. 1.*



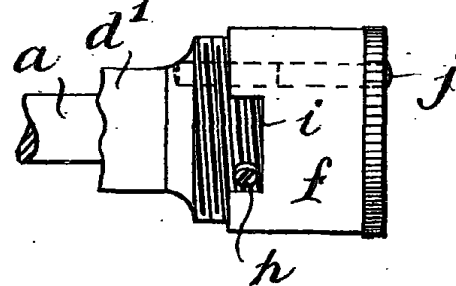
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



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