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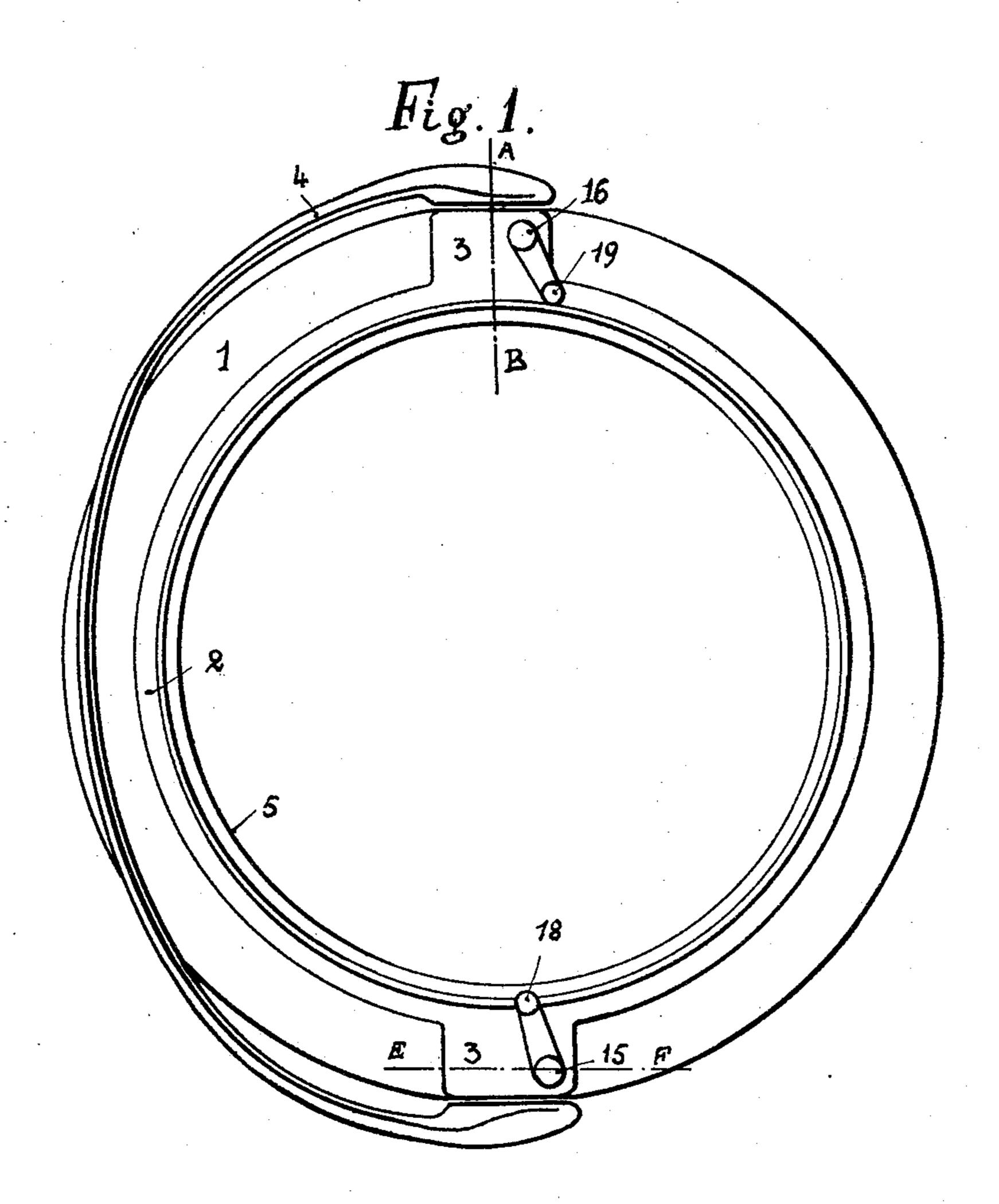
R. DUCROUX

1,897,693

SHIP'S SCUTTLE

Filed Nov. 25, 1931

3 Sheets-Sheet 1

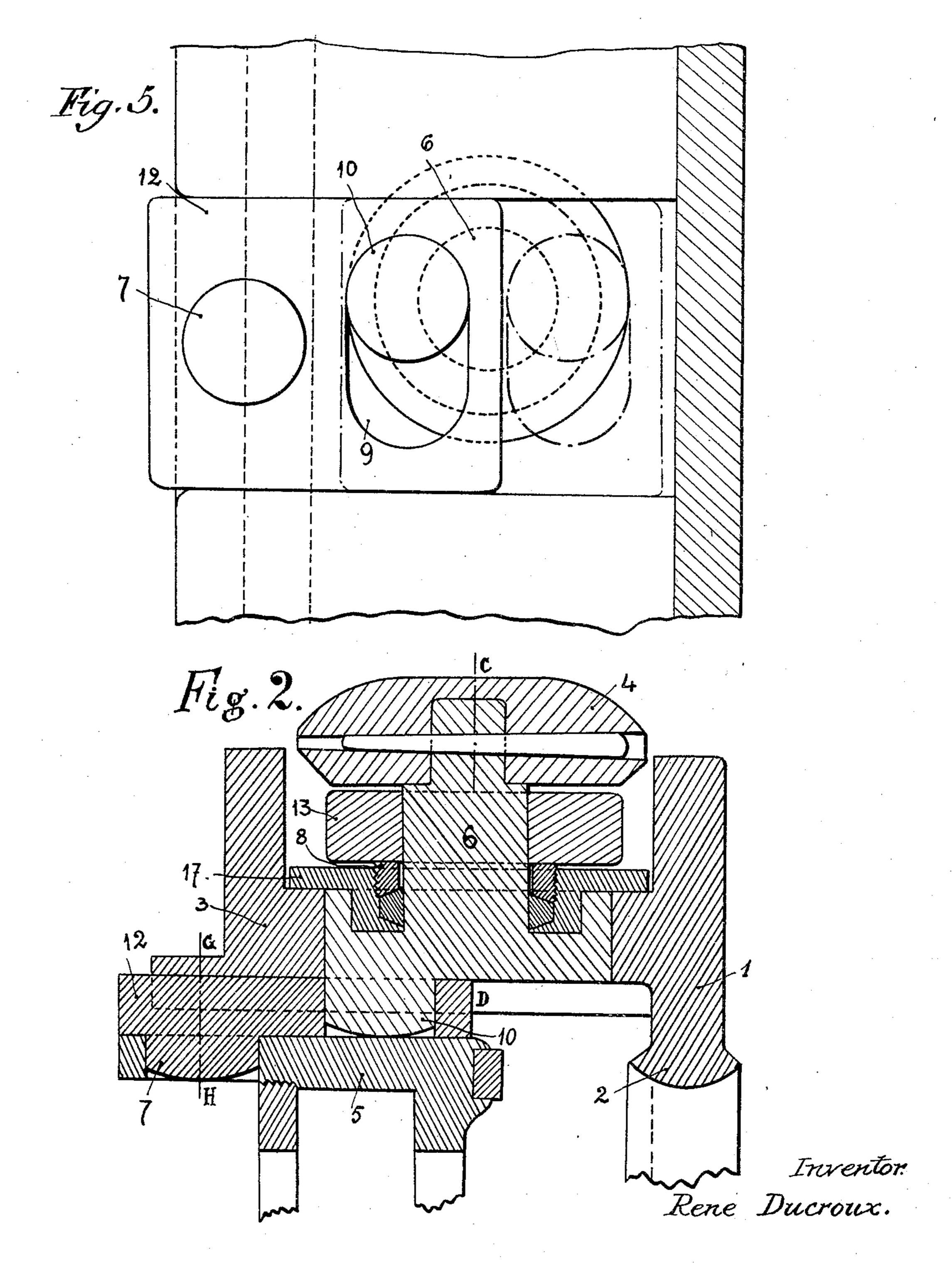


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By William C. Linton. Attorney. SHIP'S SCUTTLE

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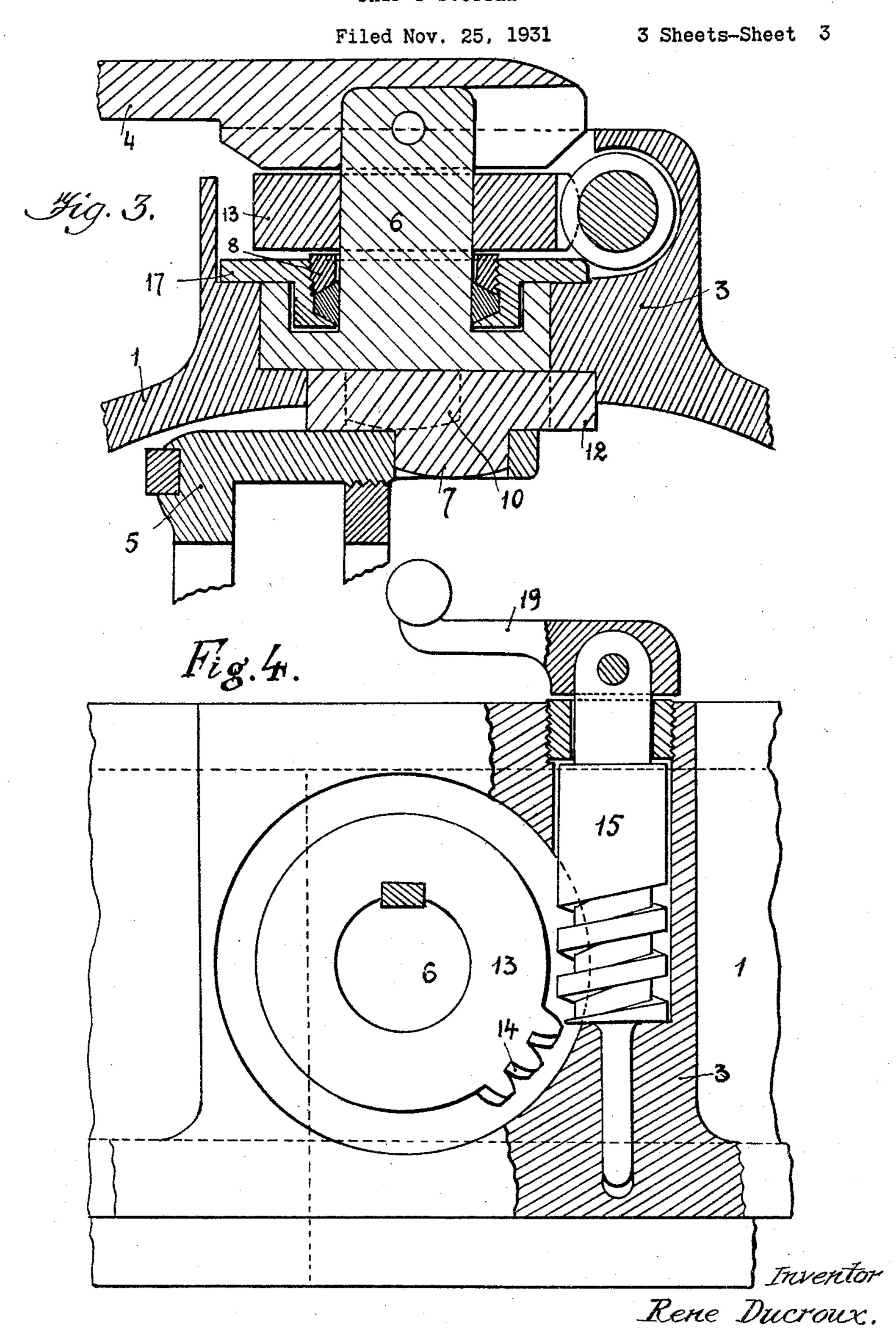
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SHIP'S SCUTTLE



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UNITED STATES PATENT OFFICE

SHIP'S SCUTTLE

Application filed November 25, 1931, Serial No. 577,359, and in France November 27, 1930.

This invention comprises improvements in and connected with side-lights, side-scuttles or port openings for ships and is concerned with that type of apparatus in which the glass-holder being removed. the closure, usually a glazed sash, is mounted to swivel upon trunnions or diametral pivots so that it can be readily opened, but is distance away from the seating so that its patent. approaching arc will clear the port opening In accordance with the present invention, ²⁰ of dispensing with members which are prominent and ungainly at the cabin side of the scuttle, of being simple in construction and In the example illustrated, each member inexpensive while being particularly strong.

The arrangements provided in accordance with the invention also enable a dead-light to be inserted immediately and without difficulty.

The improved arrangements provided in accordance with the invention are suitable for all pivotal scuttles, but the invention is more particularly applicable to pivotal scuttles which are adapted to be opened outwards. It is applicable also to scuttles which are oval in shape, and which constitute the object 35 of my prior United States Patent No. 1,823,790.

tion, which, with reference to the accompany- against its seat, a ring 13 keyed on to the 40 ing drawings, shows, solely by way of example, how the invention could be put into practice.

Figure 1 is a schematic view in elevation of a scuttle provided with an embodiment of the arrangements in accordance with the invention.

Figure 2 is a section on line AB of Figure 1, on a larger scale, while Figure 3 is a section on CDGH of Figure 2 (the scuttle being 50 open).

Figure 4 is a section on the line EF of Figure 1, also on a larger scale, while Figure 5 is a plan view of the sliding lower member,

Referring first to Figure 1, the frame of 55 the scuttle is shown at 1 secured to the side of the ship and carrying a continuous seat nevertheless capable of being pressed strong-ring 2, which is integral with the frame. ly against a seating to ensure water-tight- This seat ring is circular in the embodiment ness in the closed condition. Before such a of the invention illustrated, but it could be 60 closure or sash can be swivelled to an open oval, as well as the glass-holder, as described position, it must be moved bodily a certain in the specification of the above-mentioned

during the swivelling movement. The prin- the frame 1 has, for example at the top and 65 cipal object of this invention is to construct at the bottom, two casings 3, in each of which a side-light or scuttle of this character hav- is a member 6, constituting a crank for the ing among the other advantages, those of displacement of the corresponding pivot of rendering the said operation easy and rapid, the glass-holder, these members 6 in the two casings 3 being connected by an external 70 semi-circular member 4.

> 6 is cylindrical at the outer part and passes through a packing gland 8 maintained in position by a cover-plate 17, which is screwed 75 to the casing 3. Its lower part is in the form of a flange and carries a crank-pin 10, which is adapted to slide in an oval aperture 9 in a member 12, which itself is adapted to slide in the frame 1 and carries the pivot-pin 7 of 80 the glass-holder 5.

As shown, the pivots 7 of the glass-holder 5 are eccentric with respect to the latter, which permits of the glass-holder being swivelled after a smaller movement of the 85 slide 12 in the frame 1 than would be neces-The objects and features of the invention sary if the pivots were in the plane of the will be evident from the following descrip- glass-holder. For holding the glass-holder stub of each member 6 is formed with a 90 toothed sector 14 which comes into engagement with a screw 15 when the glass-holder is substantially in its closed position. The screw 15 at the lower part of the scuttle is secured in position, whereas the correspond-95 ing screw 15 at the upper part of the scuttle is arranged so as to be capable of sliding parallel to its axis. Adjustment for securing purposes effected by the screw at the lower part of the scuttle is transmitted to 100

the upper part by the handle 4, the upper screw 15 being meanwhile displaced parallel to its axis. It is then possible to rotate the latter screw so as to lock the upper part of 5 the glass-holder in the position to which it

has been set with the lower part.

Alternatively each of the screws 15 is replaced by a screw which is grooved longitudinally in such a way that the toothed sec-10 tor 14, which may extend around the entire ring 13, normally engages with this groove. connecting the rotatable members. Upon rotating the grooved screw 15 through a fraction of a rotation, the threaded part thereof engages the toothed sector 14 so that 15 the glass-holder can be secured against its seat. This latter arrangement allows the glass-holder to be secured against a deadlight interposed between said glass-holder and the seating ring.

The operation of the scuttle is as follows: To open the scuttle, the upper and lower screws 15 are rotated, which liberates the members 6, and the semi-circular member 4 is then passed from one side of the scuttle

25 to the other.

This operation causes the members 6 to be rotated, and consequently the crank-pins 10 cause the members 12 to slide in the frame (in Figure 5 the members 12 move from 30 the position illustrated with dotted lines to that illustrated with full lines).

The scuttle is then open, and the glassholder 5 is able to swivel about the pivots 7.

To close the scuttle, the operation is the 35 reverse.

When the arrangements in accordance with the invention are applied to a scuttle opening inwardly, the packing gland 8 is evidently in this case omitted.

Suitable arrangements may be provided to retain the semi-circular member in intermediate positions, and if it be desired to open the glass-holder partially.

As the scuttle has no prominent members 45 towards the interior of the ship, its decora-

tion may be particularly æsthetic.

In the example illustrated, the seat ring 2 has a sufficiently large diameter to permit of the glass of the glass-holder being re-50 placed from the cabin side of the scuttle.

It will be evident that the invention is not limited to the particular construction and arrangement of the parts hereinbefore described, which may be varied as desired to 55 suit particular requirements, with exceeding the scope of the invention.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be per-60 formed, I declare that what I claim is:

1. A ship's scuttle, comprising a glassholder, pivoting means for said glass-holder, a slide engaging said pivoting means and having an elongated slot formed therein, and 65 a rotatable member provided with an eccen-

trically disposed projection extending into

the elongated slot of said slide.

2. A ship's scuttle, comprising a glassholder, diametrical pivots for said glassholder, slides engaging said pivots and hav- 70 ing an elongated slot formed therein, a pair of rotatable members, each provided with an eccentrically disposed projection extending respectively into the elongated slot of said slides and a semi-circular operating member 75

3. A ship's scuttle comprising a glassholder, pivoting means for said glass-holder, a slide engaging said pivoting means and having an elongated slot formed therein, a 80 rotatable member provided with an eccentrically disposed projection extending into the elongated slot of said slide, a toothed sector carried by said member, and an operating

screw engageable with said sector.

4. A ship's scuttle comprising a glassholder, diametrical pivots for the glassholder, slides engaging said pivots and having an elongated slot formed therein, a pair of rotatable members each provided with an 90 eccentrically disposed projection extending respectively into the elongated slot of said slides, a toothed sector carried by each of said members, an operating screw engageable with said sector, and one of said screws being 95 mounted for longitudinal displacement whereby to lock said glass-holder in position.

5. A ship's scuttle comprising a glassholder, diametrical pivots for the glassholder, slides engaging said pivots and hav- 100 ing an elongated slot formed therein, a pair of rotatable members each provided with an eccentrically disposed projection extending respectively into the elongated slot of said slides, a toothed sector carried by each of 105 said members, an operating screw engageable with said sector, and one of said screws having a longitudinal groove of the same section as the teeth of the toothed sectors whereby, upon actuation thereof, to secure the glass- 110 holder against its seat.

6. Swivelling ships-light, comprising a frame with a seating, a glass-holder, diametrical pivots for said glass-holder, diametrically opposed rotatable adjustment devices 115 engaging said pivots for adjusting said glassholder towards and away from the seating and a handle extending around said frame to

connect said devices.

7. Swivelling ships-light, comprising a 120 frame, a glass-holder, diametrical pivots for said glass-holder, diametrically opposed eccentric devices rotatably mounted for adjusting said glass-holder towards and away from the frame, and a handle adapted to swing 125 from a position adjacent one side of the frame to a position adjacent the other side of said frame for the purpose of actuating the adjusting devices in co-ordination.

8. Swivelling ships-light comprising a 130

light, a frame with a seating for said light, diametrically opposed swivel pivots for said light, revoluble adjustment means engaging said pivots for moving the light bodily towards and away from the seating, said adjustment means being arranged on the frame at diametrically opposed points, and a common actuating device for said revoluble adjustment means in the form of a bail connecting the same and swingable from one side of the frame to the other.

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