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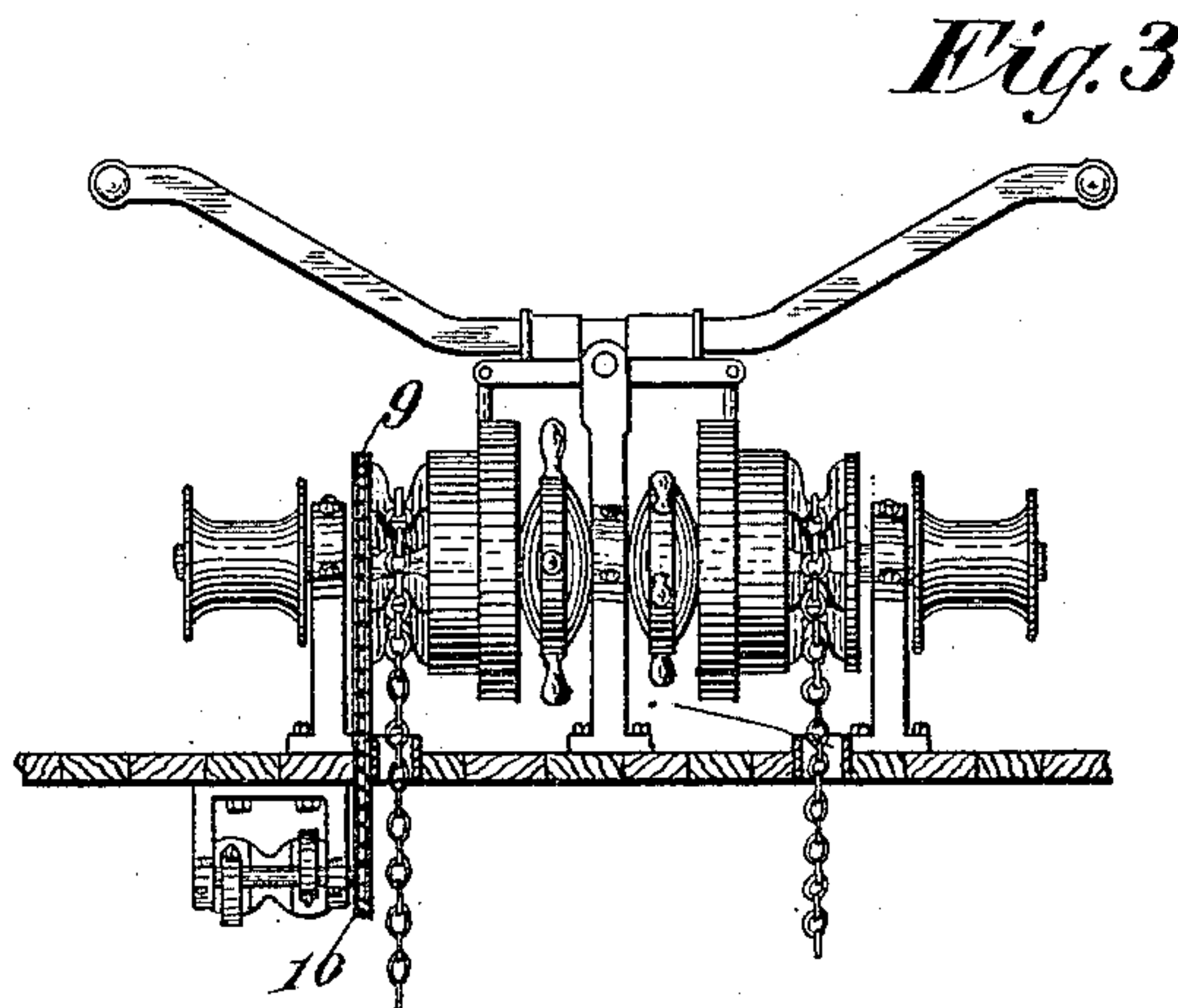
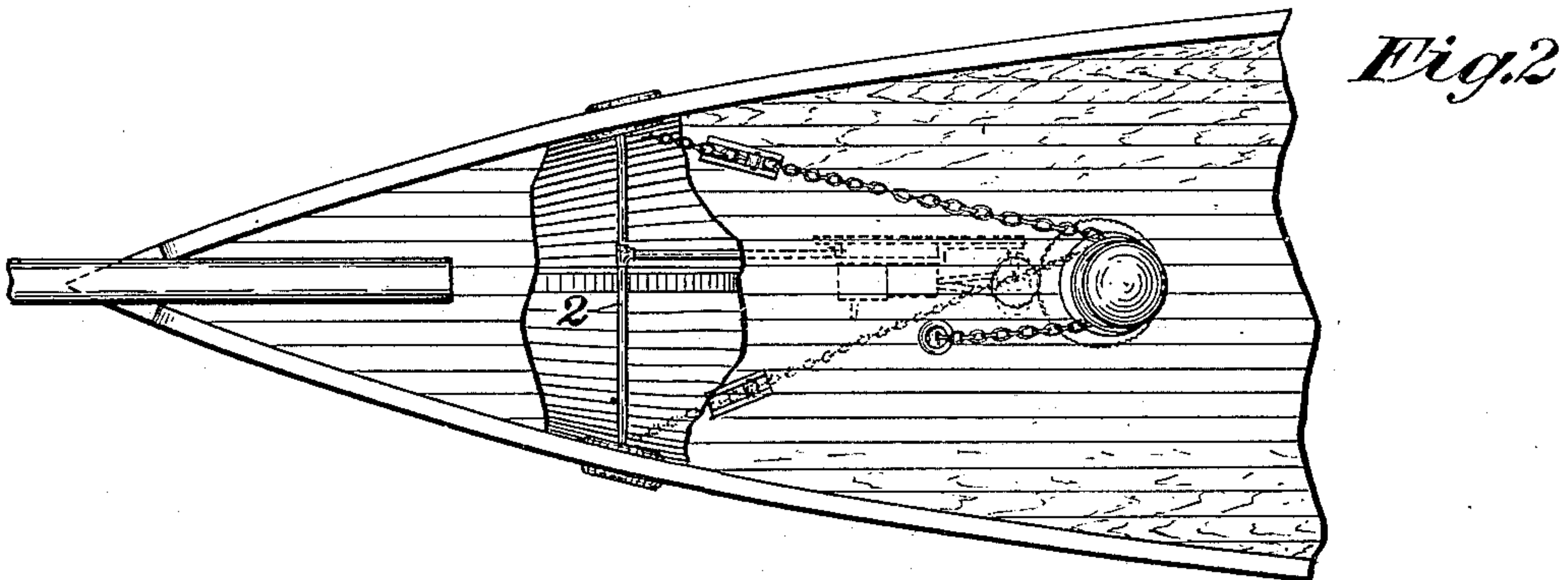
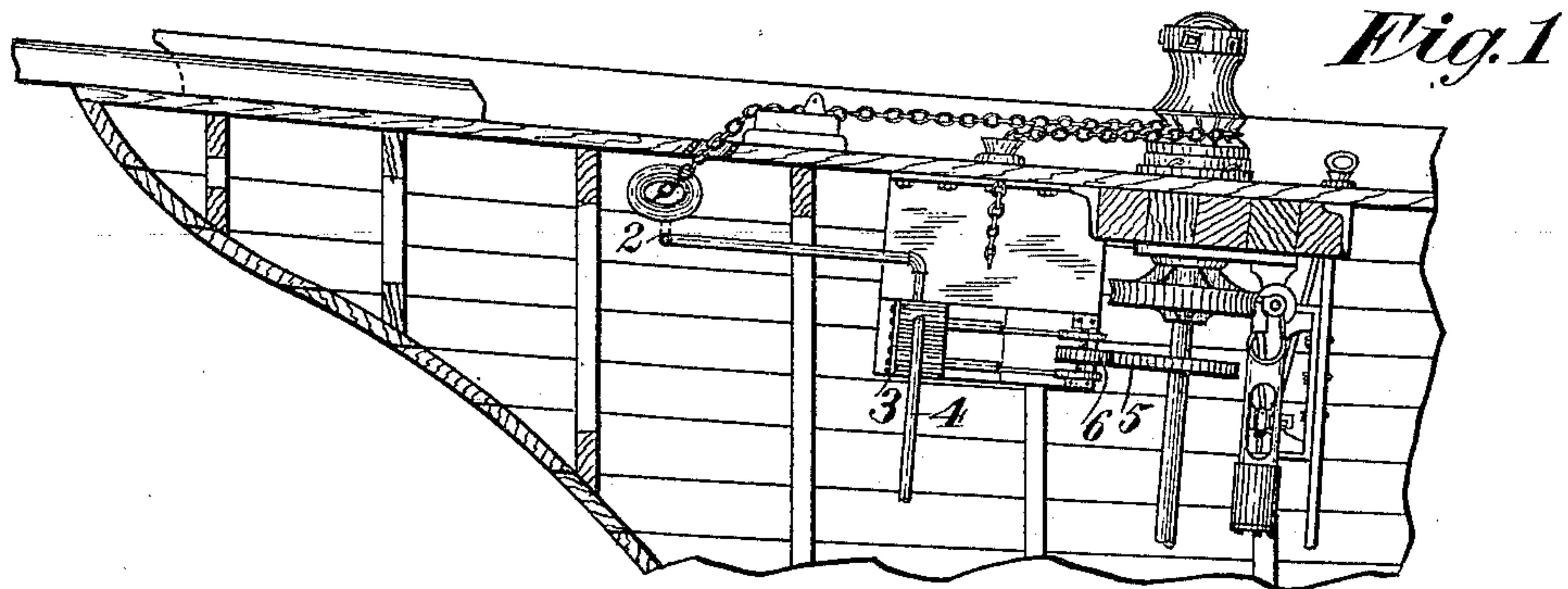
Patented Apr. 11, 1899.

B. M. WHITLOCK.
APPARATUS FOR CLEANING SHIPS' CABLES.

(Application filed Jan. 6, 1899.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES:

Geo. B Rowley.
Elizabeth Ewing.

INVENTOR

Benjamin M. Whitlock
BY *Robert Head*

ATTORNEY

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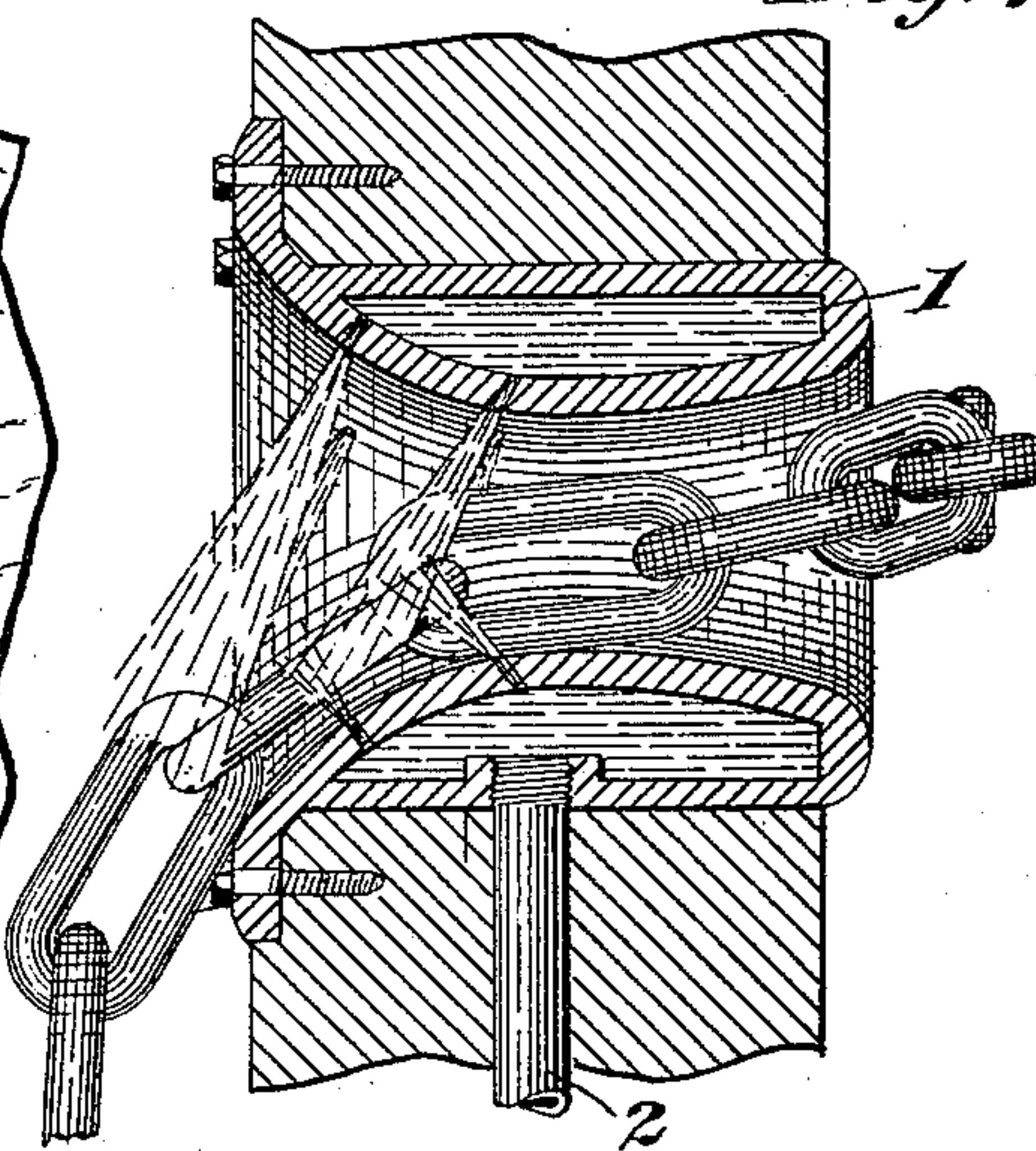
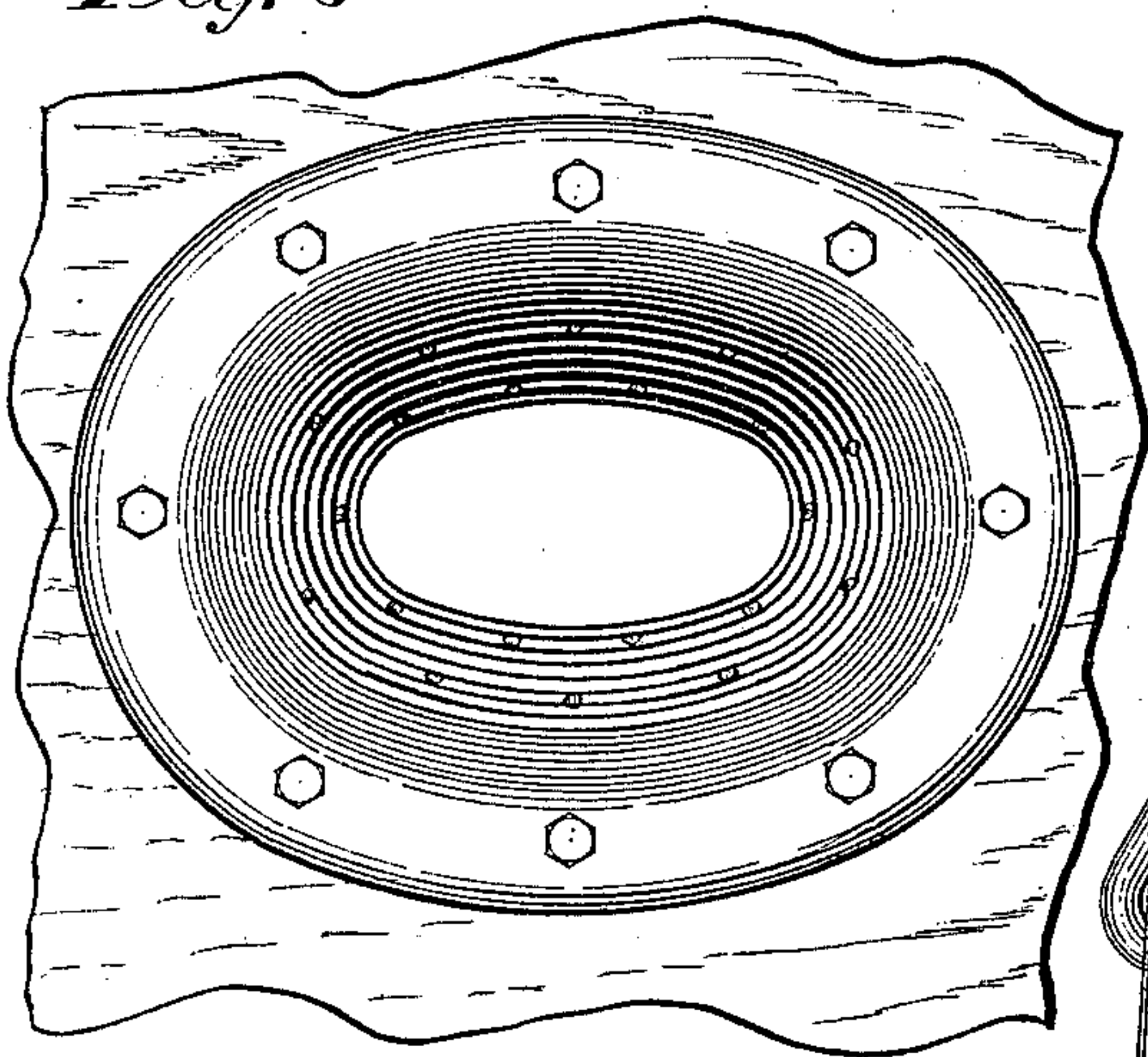
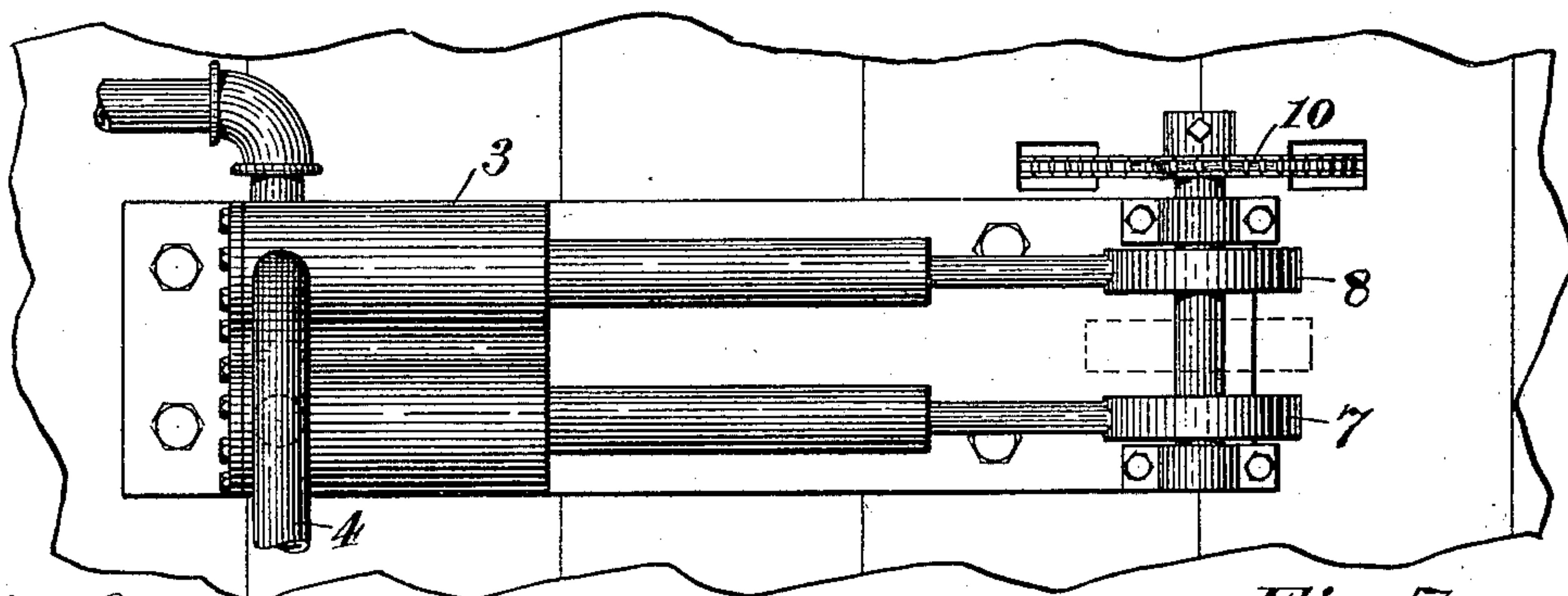
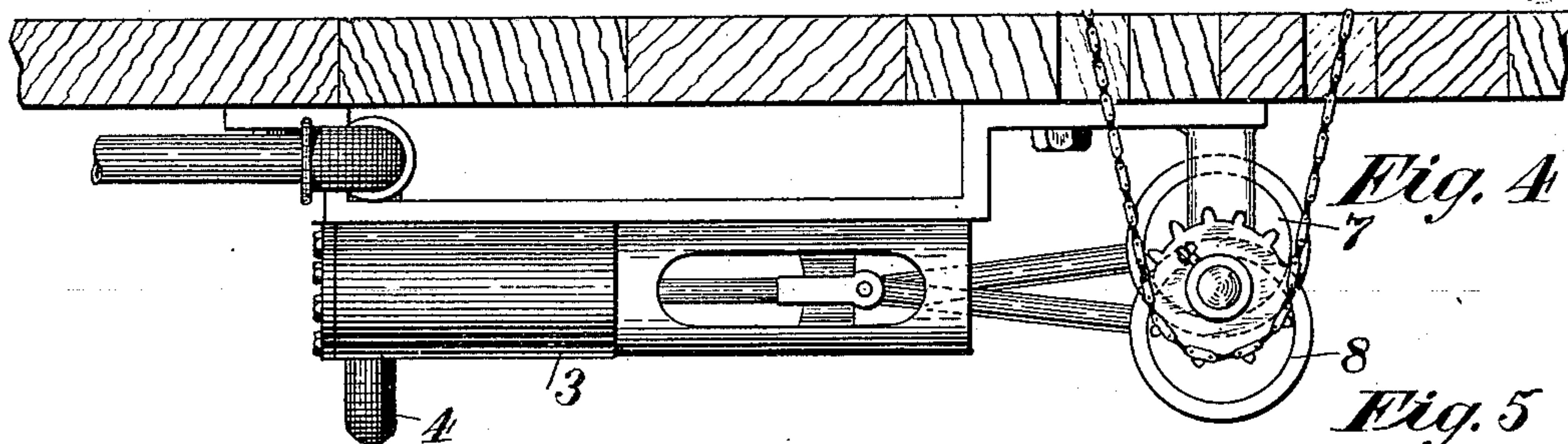
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UNITED STATES PATENT OFFICE.

BENJAMIN M. WHITLOCK, OF NEW YORK, N. Y.

APPARATUS FOR CLEANING SHIPS' CABLES.

SPECIFICATION forming part of Letters Patent No. 622,838, dated April 11, 1899.

Application filed January 6, 1899. Serial No. 701,317. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN M. WHITLOCK, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Apparatus for Cleaning Ships' Cables, of which the following is a specification.

This invention relates to apparatus for cleaning the cables or anchor-chains of vessels. The mud carried up from the bottom by the hawser or cable and the resulting foul condition of the deck near the hawse-hole are a source of considerable annoyance in large vessels or ships. As the apparatus for weighing anchor is now constituted this mud and slime must be removed from the chain and the deck by liberal flushing. My invention is designed to obviate this inconvenience. I provide for a clean and expeditious method of weighing anchor by mounting on the capstan or windlass a pump which is automatically thrown into action by the operation of the capstan or windlass and providing a jet or jets of water on the chain at or near the hawse-hole, liberally flushing it with water while anchor is being weighed. I preferably provide the hawse-hole casting with a series of water-jets communicating with a fixed pipe leading to the pump, so that the jets are directed upon the cable while being drawn through the hawse-hole and freely flush it with clean water before it reaches the deck.

The several features of novelty of the invention will be more fully hereinafter described and will be definitely indicated in the claims appended to this specification.

In the accompanying drawings, which illustrate the invention, Figure 1 is a longitudinal section of part of a vessel equipped with my improvements. Fig. 2 is a top plan of the organization shown in Fig. 1. Fig. 3 is a side elevation of a well-known type of yacht-windlass equipped with my improvements for operating the pump. Fig. 4 is a side elevation, and Fig. 5 a plan, of the pump. Figs. 6 and 7 are side elevation and central section of a hollow casting in which the hawse-hole is formed.

I preferably connect the pump by fixed pipes arranged below the deck with a hollow casting in which the hawse-hole is formed.

This casting, as shown in Figs. 6 and 7, is provided with a hollow interior, (indicated at 1,) the inner wall of which is provided with a plurality of rows of holes inclining toward the outer side of the hawse-hole, as shown in Fig. 7, so that the jets of water will be directed upon the cable in an inclined radial direction, promoting a thorough flushing of all parts thereof and the detachment of mud and other debris. I preferably provide a fixed pipe connection, as indicated at 2 in Figs. 1 and 2, with the casting in which the hawse-hole is formed, said pipe leading below the deck to the pump 3. The pump may be of any suitable construction, its supply-pipe leading to a suitable point below the water-line, as indicated at 4. The pump is operated by the windlass or capstan and is directly connected with some moving part thereof. No particular form of mechanism is essential. As shown in Fig. 1, which illustrates a steam or hand operated capstan of a well-known type, I mount upon the vertical shaft which operates the cable-drum a spur-gear 5, which drives a pinion 6, mounted on a shaft secured to the pump-base, suitably supported beneath the deck. On this shaft is a pair of eccentrics 7 8, (see Figs. 1 and 4,) which give a reciprocating motion to pistons operating in the cylinders of the pump 3. In the case of a windlass the gearing may be suitably modified, as indicated in Fig. 3, a sprocket-chain being carried around a sprocket-wheel on the drum-shaft and operating a cooperating sprocket-wheel 10 on the eccentric-shaft which drives the pump. The windlass shown in Fig. 3 is a common type of construction, which embodies no novel features except those I have already described, and need not, therefore, be further referred to.

It is not absolutely essential in all cases that a fixed pipe connection shall be made with the casting in which the hawse-hole is formed, the water-distribution system connected with the capstan or windlass, and which is capable of providing a strong head of water when the anchor is raised, being the most important feature of my invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. As a means for flushing an anchor chain or cable, the combination of a capstan or

windlass, a force-pump geared thereto, a pipe connecting the pump with a source of water-supply, and a distributing-pipe leading from the pump and adapted to flush the anchor-
5 chain.

2. As a means for flushing an anchor chain or cable, the combination of a capstan or windlass, a pump geared thereto and operated simultaneously therewith when the anchor is weighed, and pipe connections from
10 said pump to a source of water-supply and the hawse-hole through which the cable passes.

3. As a means for flushing an anchor chain or cable, the combination of a hollow casting
15 in which a hawse-hole is formed the inner walls of which are perforated to form water-

jets, and pipe connections leading from said casting to a source of water-supply.

4. As a means for flushing anchor chains or cables of boats, the combination with a
20 hollow casting in which a hawse-hole is formed, provided with a series of orifices on the inner wall, of pipe connections with a pump operated by the capstan or windlass.

In testimony whereof I have hereunto sub-
25 scribed my name this 30th day of December, A. D. 1898.

BENJAMIN M. WHITLOCK.

Witnesses:

LE ROY CLARK, Jr.,

WALTER E. HOLLOWAY.