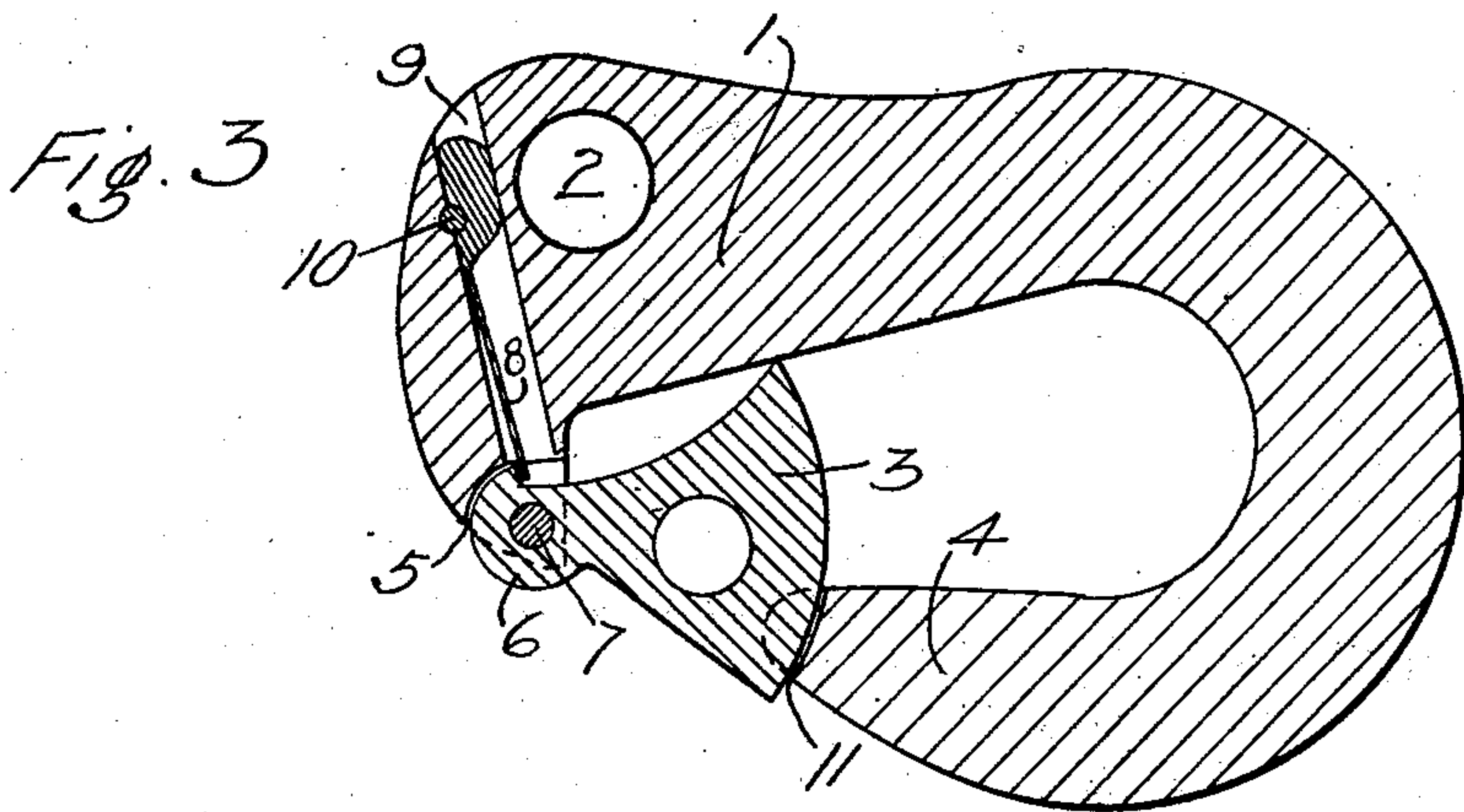
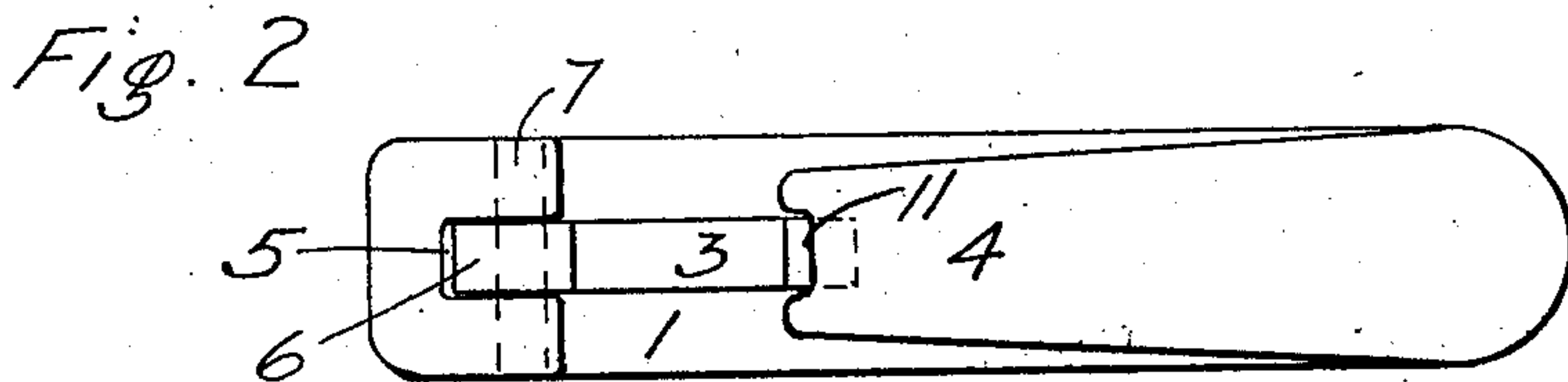
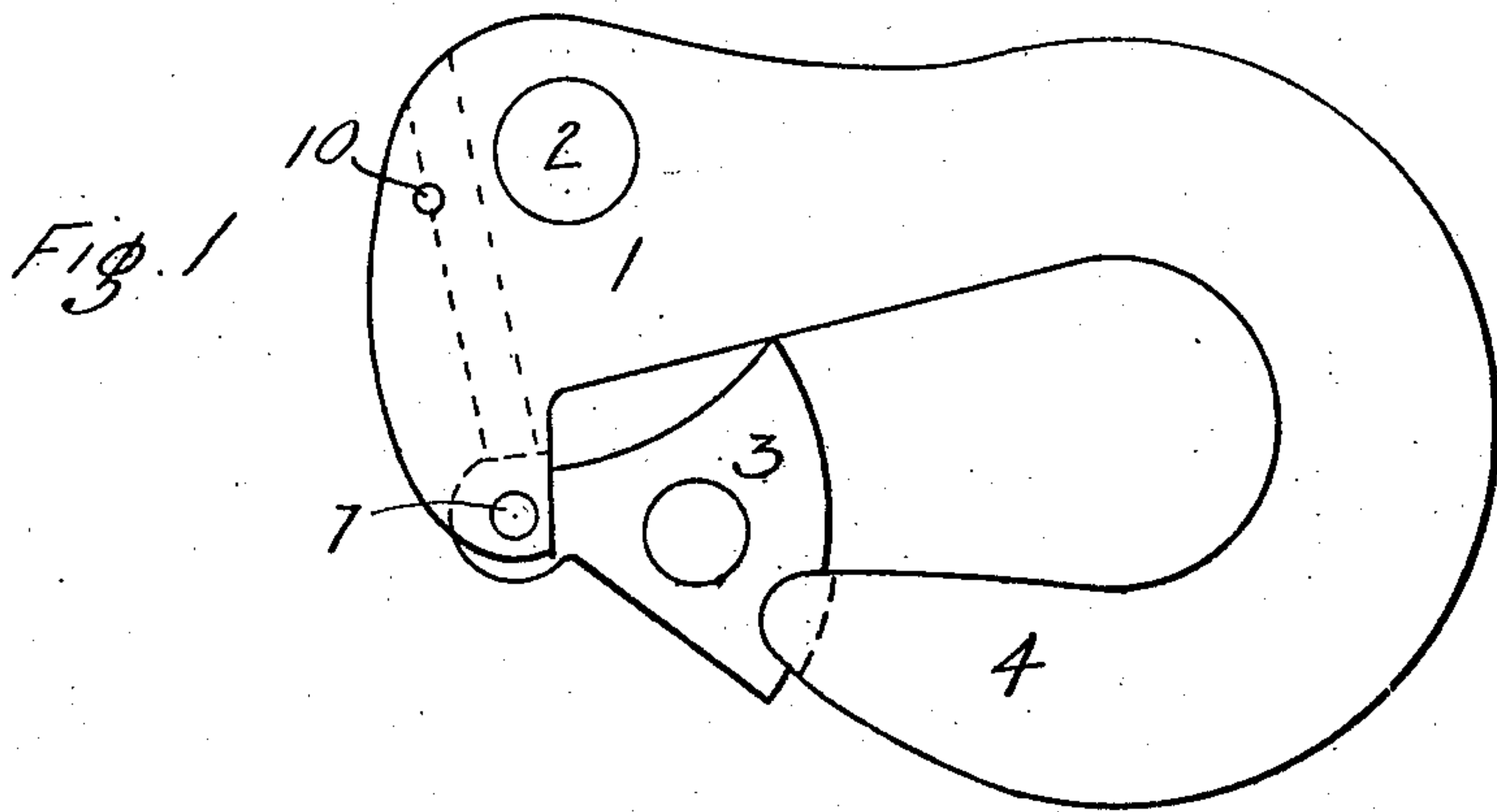


No. 860,178.

PATENTED JULY 16, 1907.

W. D. ZIEGLER.
HOOK.

APPLICATION FILED FEB. 4, 1907.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM D. ZIEGLER, OF CENTRALIA, WASHINGTON.

HOOK.

No. 860,178.

Specification of Letters Patent.

Patented July 16, 1907.

Application filed February 4, 1907. Serial No. 355,621.

To all whom it may concern:

Be it known that I, WILLIAM D. ZIEGLER, a citizen of the United States of America, residing at Centralia, in the county of Lewis and State of Washington, have
5 invented certain new and useful Improvements in Hooks, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to hooks and especially to that kind known as butt hooks for use on the end of a
10 cable used in logging and similar industries, and has for its objects to provide a hook which shall be simple and strong in construction and which has its throat closed by a latch which will prevent the body, which is grasped by the hook, from escaping therefrom. I
15 attain these objects by the devices illustrated in the accompanying drawing in which

Figure 1 is a side view of the hook, Fig. 2 is a front view thereof, and Fig. 3 is a longitudinal section thereof.

20 Similar numerals of reference refer to similar parts throughout the several views.

My improved hook consists of a heavy shank 1 through which the cable hole 2 is made and to which the latch 3 is pivoted and on the end of which the hook
25 4 is formed. The latch 3 consists of a sector shaped plate pivoted in a slot 5 in the end of shank 1 adjacent to the throat of the hook in such manner that the latch will close the throat when it is swung in as shown in the drawings. The latch 3 is provided with a partially circular hub 6 through which the pivot 7 passes.
30 The edge of the slot 5 is circular and close to the hub 6 so that no dirt can enter the slot. The hub 6 is cut away on its inner side to form a shoulder against which a spring 8 presses in such a manner as to keep the latch
35 in the position shown. The spring 8 may be made in many ways, but the one illustrated is, I believe, the most satisfactory in the long run. A hole 9 is bored through the shank and a long flat spring 8 inserted

therein and held against one side by a block, either formed integral with the spring or inserted separately. 40 The spring is then locked in its place by a rivet 10 at right angles to the hole 9 and engaging the edge of the spring. The nose of the hook 4 has a slot 11 formed at its end in which the latch plate 3 passes, the sides of which slot 11 keep the plate 3 from side strain. The 45 form of the latch plate 3 is such that the exposed side is practically in line with the nose of the hook so that it will not catch in obstructions.

My improved hook is operated by being fastened to a cable line passing through the hole 2; the latch is
50 removed from the throat of the hook by simply swinging the piece 3 on the pivot 7 so that the spring 8 will engage the hub 6 and not the shoulder formed thereon. The throat is then open and the article in the hook may be removed or inserted and the latch is 55 then closed again by simply turning it on its pivot until the spring 8 engages the shoulder and completes the closing.

Having described my invention, what I claim is:

In a butt hook, the combination of a main hook-shaped 60 body having a hole therethrough for connection to the pulling body, a slot formed in said main body adjacent the throat of the hook, a slot across the nose of the hook and extending to the throat thereof and being opposite to said first slot, a sector-shaped latch pivoted in said first slot 65 and engaging said second slot, said latch passing through said second slot to the main body of the hook across the throat thereof, a shoulder formed on the hub of said latch and adapted to be engaged by a spring to keep the latch 70 closed, and a spring mounted in said main body and engaging said shoulder on the hub of the latch to operate it, substantially as and for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM D. ZIEGLER.

Witnesses:

B. H. RHODES,
W. H. HODGE.