

(No Model.)

J. B. WATSON.

SLIDE VALVE FOR OIL WELLS.

No. 333,492.

Patented Dec. 29, 1885.

Fig. 1.

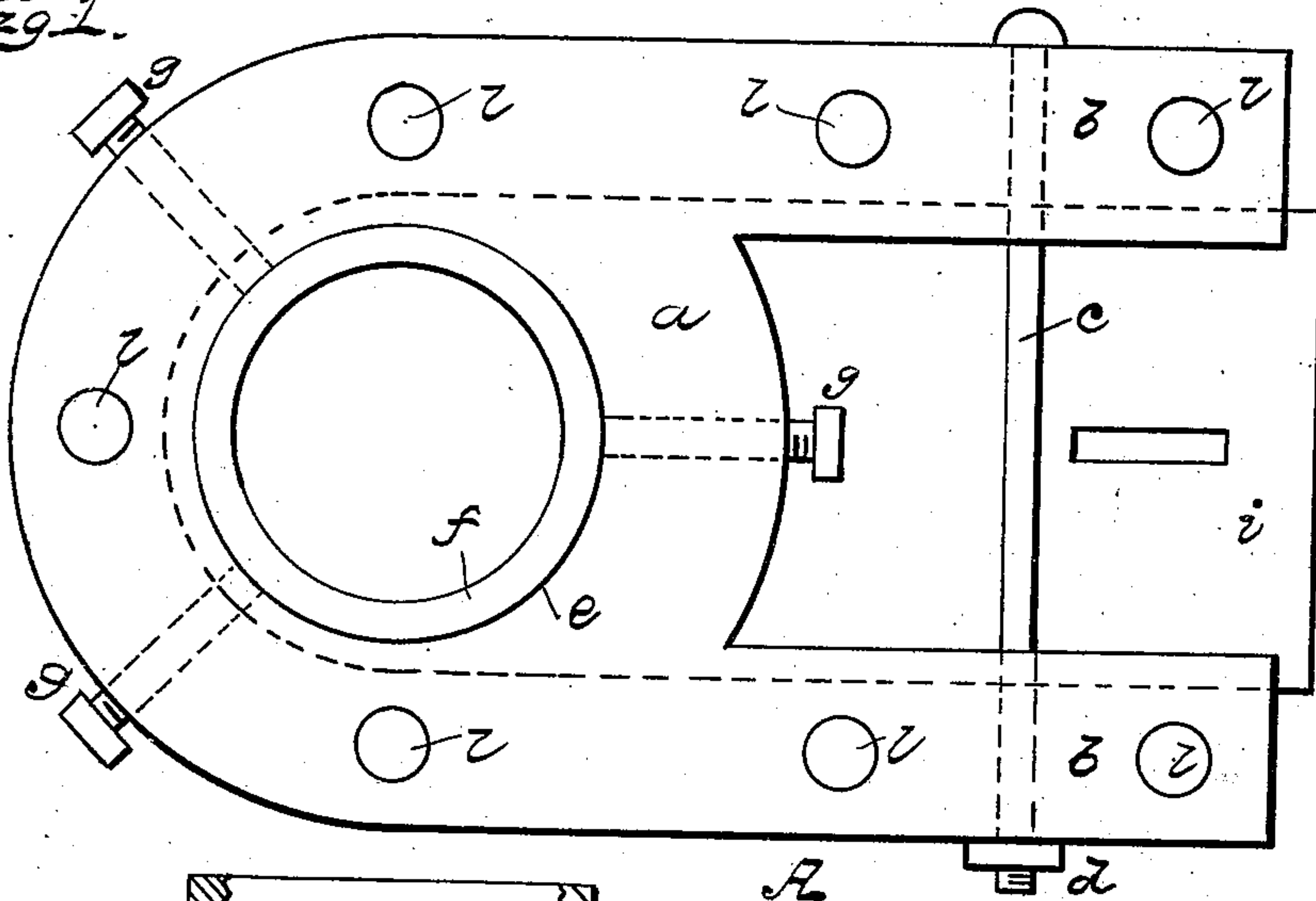


Fig. 2.

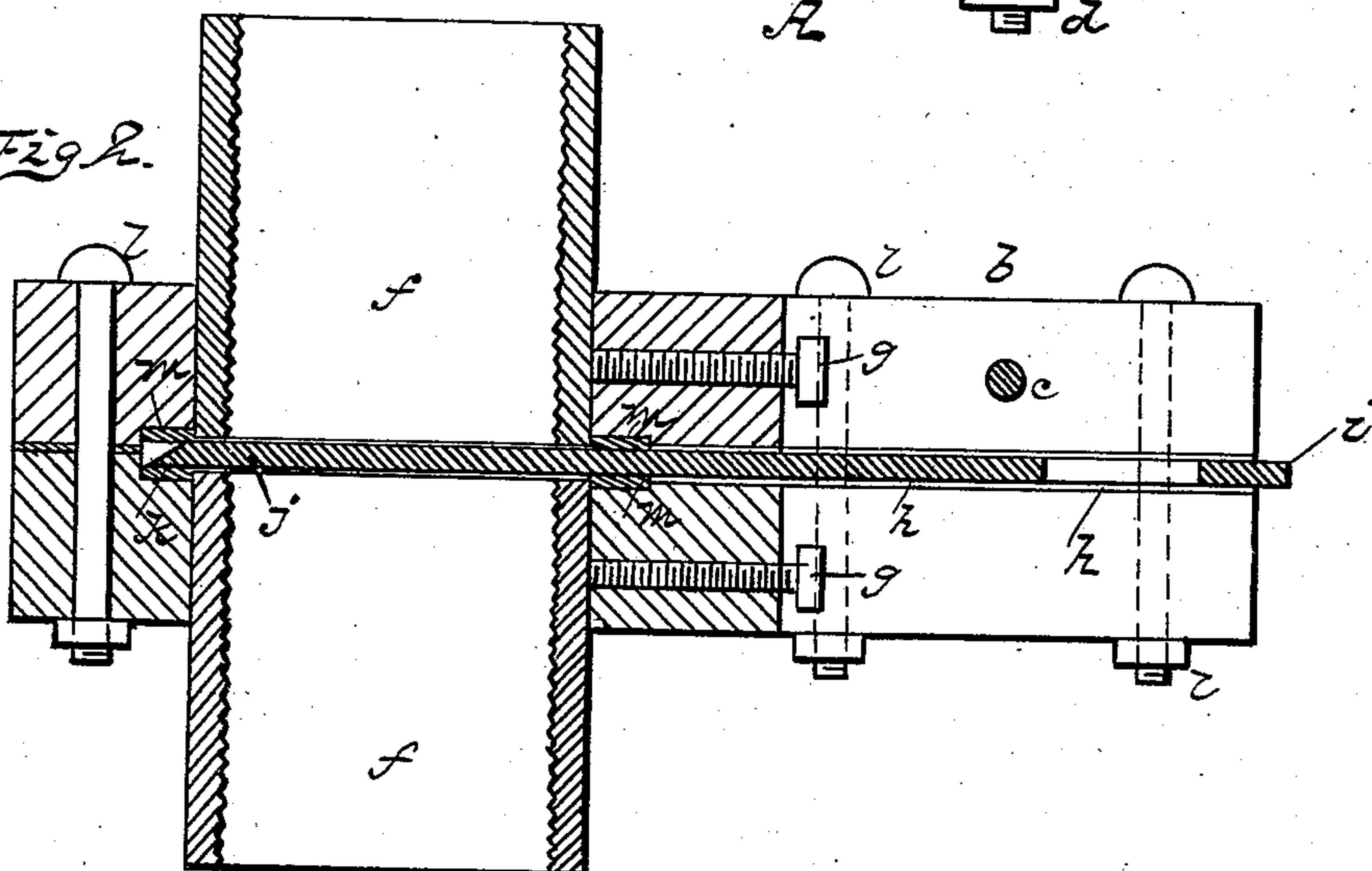
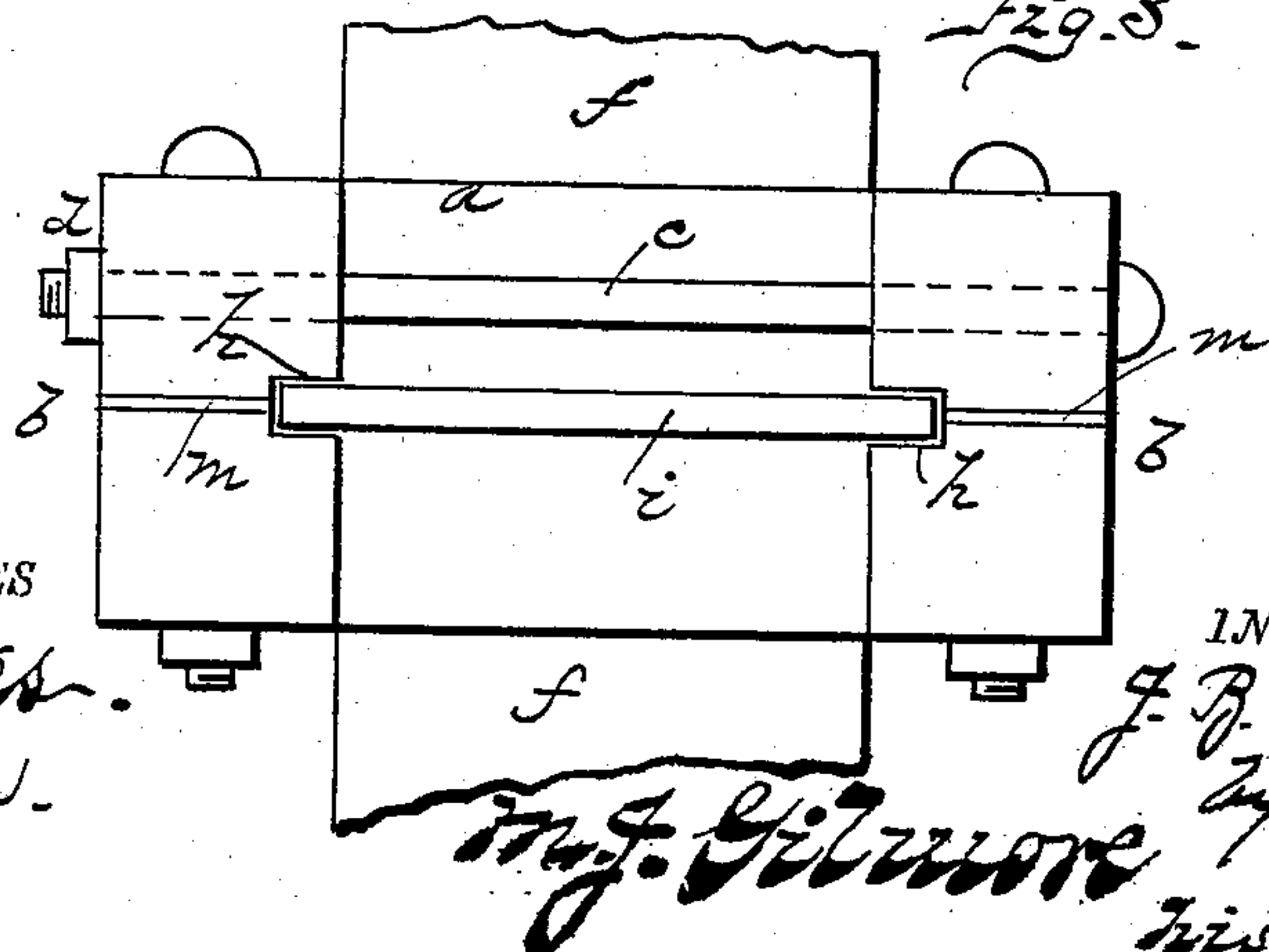


Fig. 3.



WITNESSES

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JAMES B. WATSON, OF MARIONVILLE, PENNSYLVANIA.

SLIDE-VALVE FOR OIL-WELLS.

SPECIFICATION forming part of Letters Patent No. 333,492, dated December 29, 1885.

Application filed May 5, 1885. Serial No. 164,496. (No model.)

To all whom it may concern:

Be it known that I, JAMES B. WATSON, a citizen of the United States, residing at Marionville, in the county of Forest and State of Pennsylvania, have invented certain new and useful Improvements in Slide-Valves for Oil-Wells, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to improvements in slide-valves for oil-wells; and it consists in the construction and novel arrangement of devices, as hereinafter fully explained, and particularly pointed out in the appended claim.

15 The annexed drawings, to which reference is made, fully illustrate my invention, in which Figure 1 represents a plan view of my device. Fig. 2 is a vertical sectional view of the same, and Fig. 3 is a front view.

20 Referring by letter to the accompanying drawings, A designates an iron frame, which is provided with a hub portion, *a*, and parallel branch arms *b*, which are perforated to receive a transverse bolt or rod, *c*, having at one end a head and at the opposite end a securing-nut, *d*. The hub portion has a vertical bore or opening, *e*, in which is inserted from either side a coupling-sleeve, *f*, that is secured in position by the longitudinal screws or bolts *g*, 25 which engage female threads in the hub, as shown. These branch arms are designed to be more or less elastic, and are provided on their inner faces with the longitudinal grooves or ways *h*, in which slides a plate or valve, *i*,

having a semicircular end, *j*, which is sharpened at *k*, thus presenting a keen edge for cutting rope when desired. This frame is composed of two parts, an upper and lower, secured to one another by bolts *l*, and between the branches thereof is packing *m*, and 40 when the screws are tightened the packing prevents, in connection with the slide valve, gas or fluid from escaping from the well.

This device is designed to be used at oil-wells, and to save the fluid from overflow by closing the slide-valve. It is also intended to prevent anything from dropping into the well while drilling the same or when standing with tubing or rods out, and it can be used for pipe-lines, gas-lines, tanks, and casks for oil. 50

This device can be used for various purposes in connection with production of oil, and it is simple in construction and easily applied, and at the same time cheap to manufacture. 55

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

The combination, with the frame consisting of the twin plates having the slideway, branch arms *b*, and slide *i*, of the securing screws *g* and *c*, substantially as described, and for the purpose set forth. 60

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

Witnesses: JAMES B. WATSON.
T. J. REYNER,
H. H. McCLELLAN.