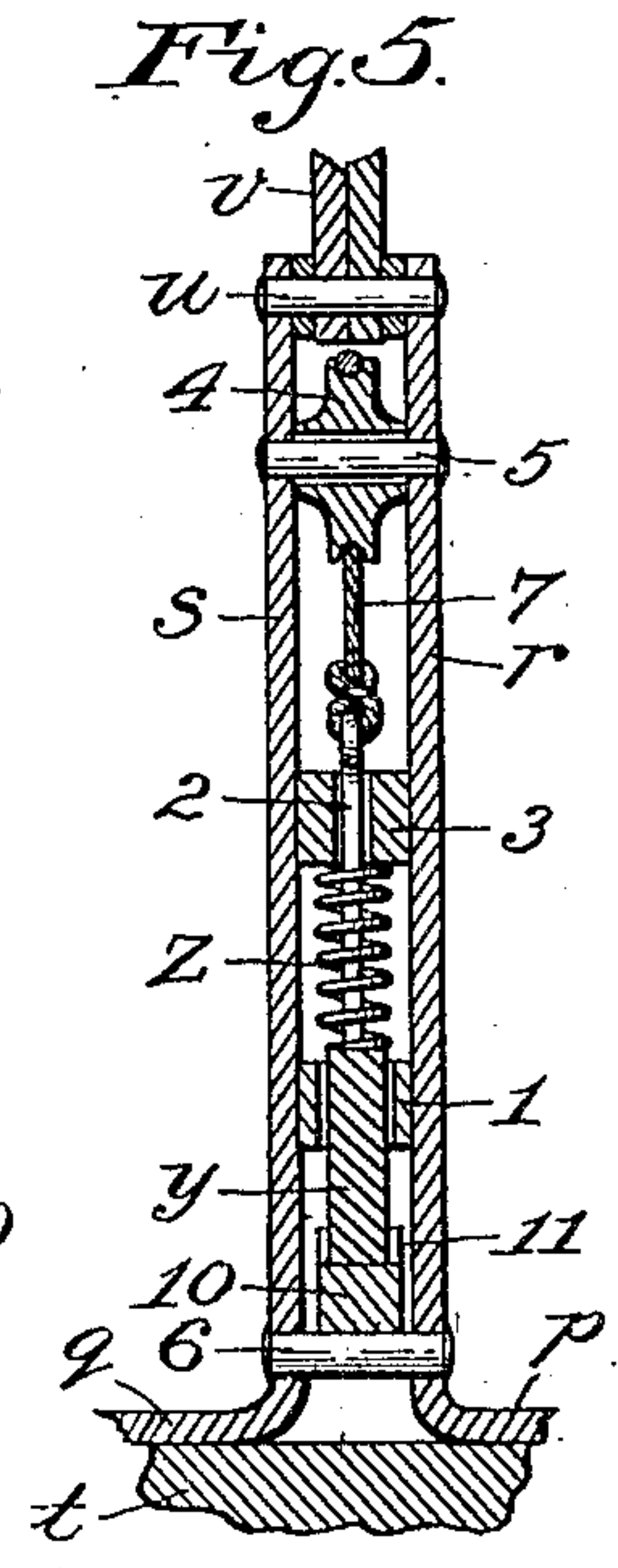
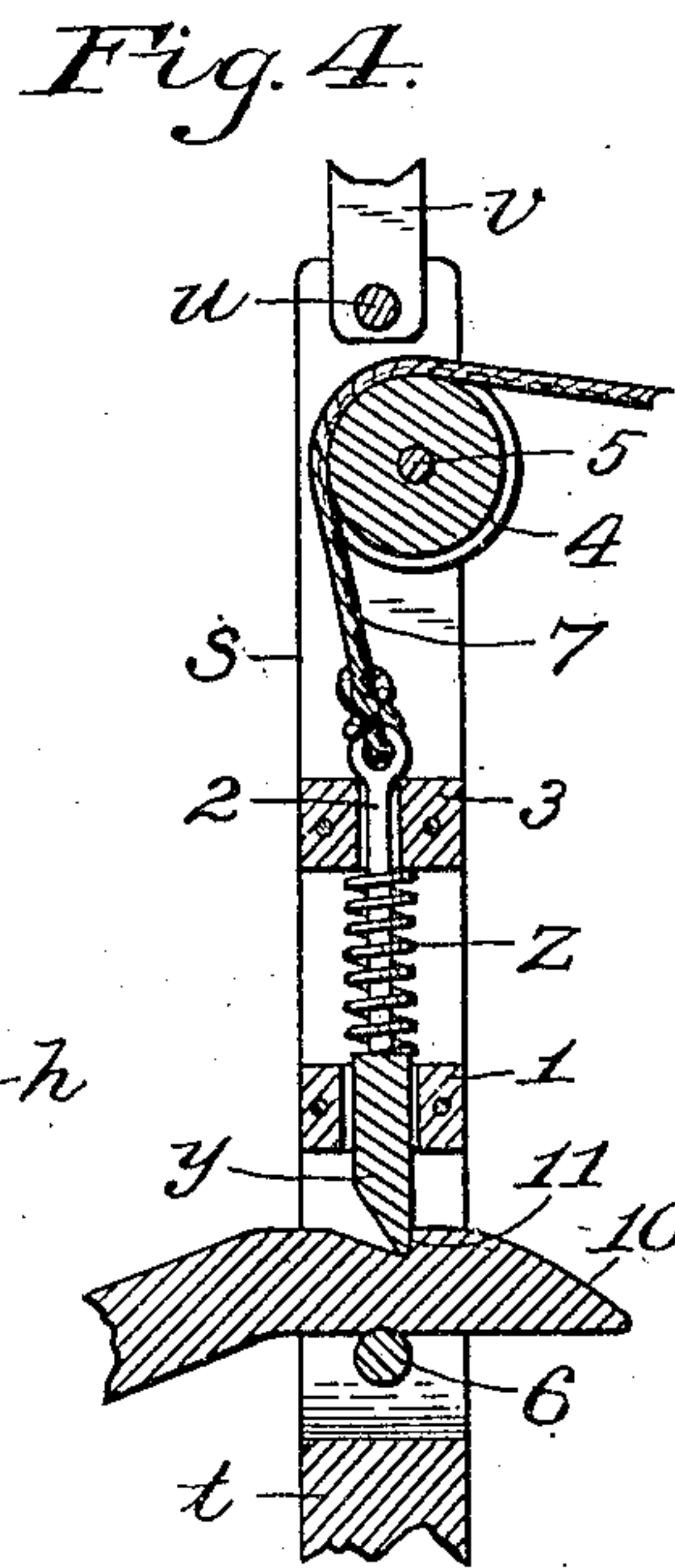
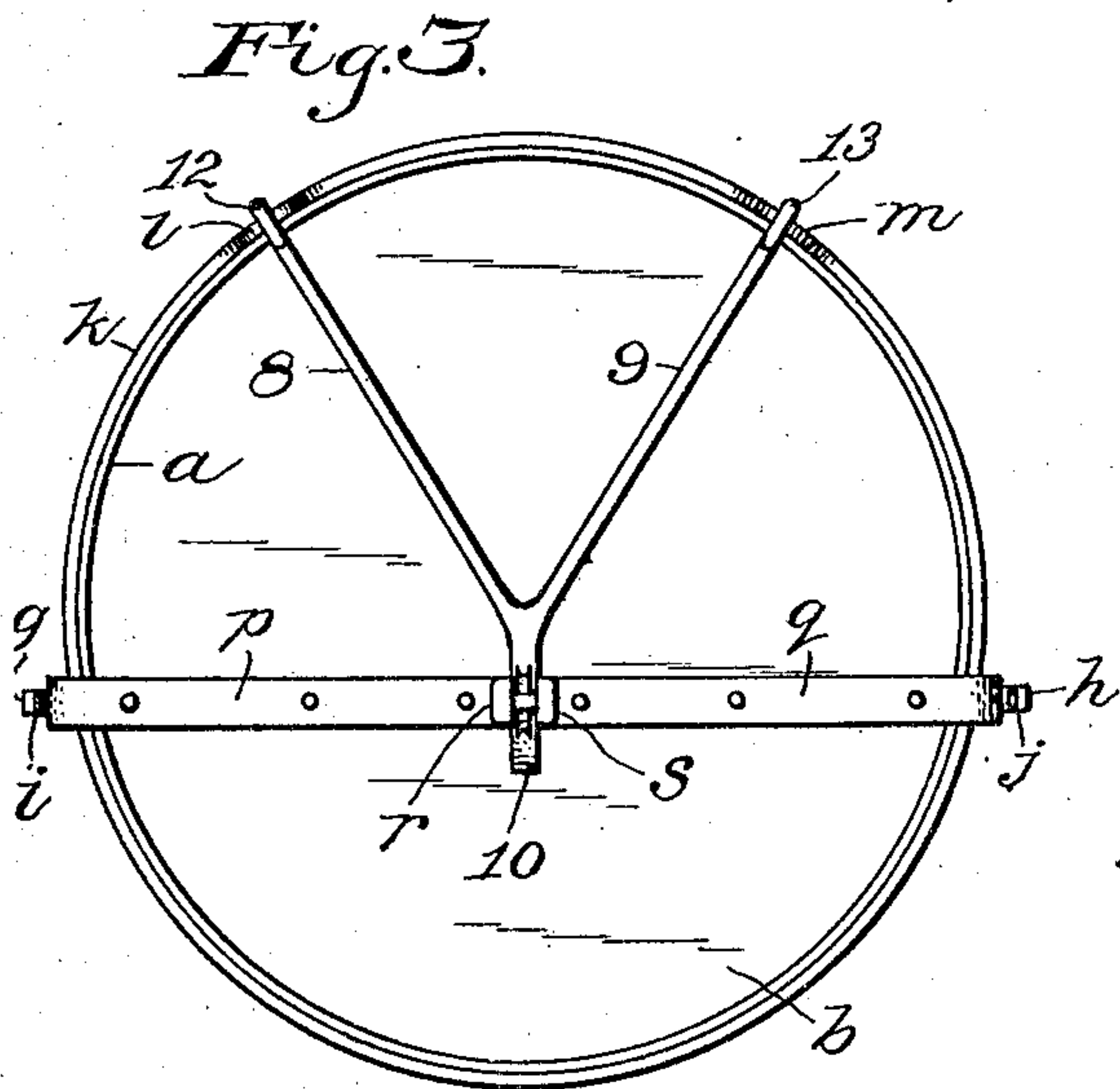
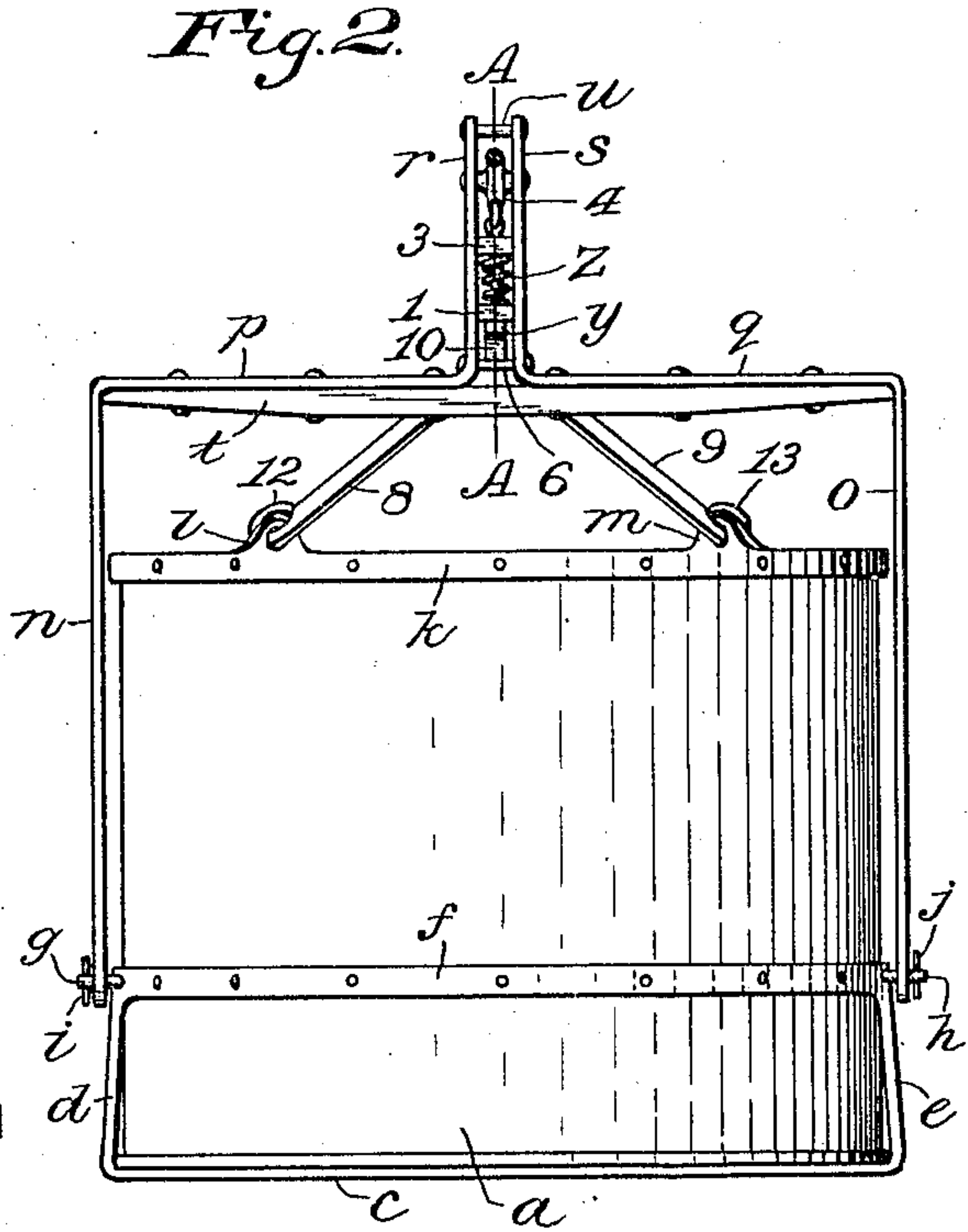
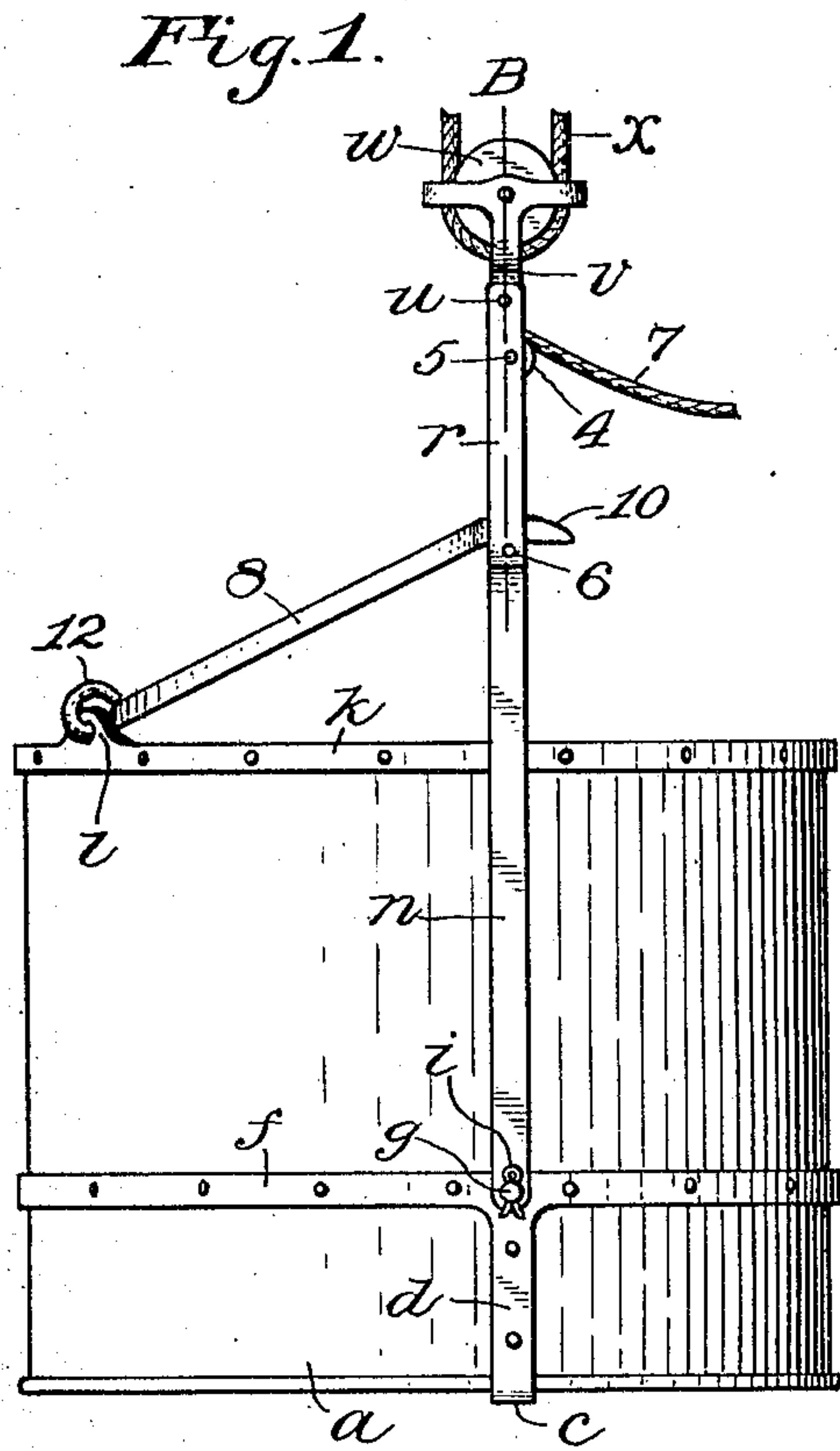


No. 872,151.

PATENTED NOV. 26, 1907.

A. SHROEDER.
DUMPING BUCKET.
APPLICATION FILED AUG. 8, 1907.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ADAM SCHROEDER, OF SUGAR CREEK TOWNSHIP, SHELBY COUNTY, INDIANA.

DUMPING-BUCKET.

No. 872,151.

Specification of Letters Patent.

Patented Nov. 26, 1907.

Application filed August 8, 1907. Serial No. 387,573.

To all whom it may concern:

Be it known that I, ADAM SCHROEDER, a citizen of the United States, residing in Sugar Creek township, in the county of Shelby and State of Indiana, have invented certain new and useful Improvements in Dumping-Buckets; and I do declare the following to be a full, clear, and exact description of the invention, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to buckets or boxes that are designed to serve as receptacles for lifting or carrying various substances, either solids or liquids and by which such substances may be quickly dumped at any desired place, the bucket being designed to be carried and raised or lowered by various types of lifting and carrying machinery, the invention having reference particularly to dumping buckets that are adapted to be used in connection with hay carriers or the like for lifting and conveying grain in barns or similar storage buildings.

The objects of the invention are to provide an improved dumping bucket that will be adapted to be used in connection with well known types of hay carriers so that the bucket may be readily connected or disconnected to such carriers as occasion may require, a further object being to provide a dumping bucket for the above-mentioned purpose which may be constructed at relatively small cost and be convenient, durable and economical in use, and adapted to be self contained and readily portable so that it may be conveniently moved from place to place.

With the above-mentioned and minor objects in view the invention consists in a dumping bucket having certain novel features of construction, and in the parts and combinations and arrangements of parts as hereinafter particularly described and referred to in the accompanying claims.

Referring to the drawings Figure 1 is a side elevation of the improved bucket connected to a portion of the lifting and carrying apparatus; Fig. 2, a rear elevation of the bucket without the carrying apparatus; Fig. 3, a top plan of the bucket; Fig. 4, a fragmentary vertical sectional view on the line A A in Fig. 2; and, Fig. 5, a fragmentary vertical sectional view approximately on the line B in Fig. 1.

Similar reference characters in the various

figures of the drawings designate like parts or features.

In a practical embodiment of the invention the bucket proper or receptacle comprises a circular side *a* which may be composed of sheet metal, preferably galvanized, and having a bottom *b* suitably attached thereto, the top of the receptacle being open. The portions of the bucket above-mentioned may be composed of relatively thin metal and therefore be cheap.

In order to enable the receptacle to sustain the loads which may be placed therein and prevent fracture of the shell thereof, a suitable frame-work is provided which comprises a metallic bar *c* that extends under the bottom *b* and has two upright members *d* and *e* which are joined at their upper portions by a band *f* that extends about the side or body portion *a* and suitably secured thereto, a pair of trunnions *g* and *h* being secured to the frame-work at such positions as to be at one side of the plane of the axis of the body part and somewhat nearer the bottom than the top of the receptacle. The trunnions are provided with retaining pins *i* and *j* respectively. A band *k* extends around the exterior of the top of the receptacle, being secured thereto and is provided with two eyes *l* and *m* which are arranged at suitable distances apart on the portion of the receptacle that is on the opposite side of the plane of the axis from that of the trunnions, for assisting and preventing the tilting of the receptacle when being lifted. The bucket comprises also a bail having two members *n* and *o* connected to the trunnions and retained by the pins *i* and *j*, these members normally extending upward beyond the plane of the top of the receptacle a suitable distance and having horizontal members *p* and *q* respectively that extend each toward the other and to these are joined upright members *r* and *s* spaced a suitable distance apart, the bail being composed of bar iron, and a beam *t* preferably composed of wood is secured to the members *p* and *q* beneath the same and extending from one to the other of the members *n* and *o*, the beam serving to reinforce or stiffen the members *p* and *q* and hold the members *r* and *s* at the desired distance apart. The extremities of the members *r* and *s* are connected by a bolt *u* whereby the frame *v* of a sheave *w* is connected to the bail, a rope or cable *x* being used in connection with the sheave for lifting the bucket

and sustaining it in transit, and the rope may be connected to any suitable carriage which as will be understood is commonly used for lifting and carrying hay or other articles.

- 5 A latch y is suitably mounted and movable vertically between the members r and s preferably in a guide 1 secured to the members, the latch having a guide stem 2 arranged movably in a guide 3 that is secured to the members r and s , there being a spring z seated against the latch y and against the guide 3. A guide pulley 4 is mounted on an axle 5 above the latch, the axle being mounted in the members r and s . A suitable guide 6 is arranged somewhat below the latch y between the members r and s , being preferably in the form of a rivet secured to the members. A trip rope or cord 7 is connected to the stem 2 of the latch and runs over the guide pulley 4 and may extend to any suitable place accessible to the operator for use in dumping the bucket.

The bucket includes a yoke which comprises two members 8 and 9 joined together at their ends and having an arm 10 in the top of which is a notch 11 to receive the latch y , the members 8 and 9 diverging from the point at which they are joined together and having loops 12 and 13 formed on their extremities and arranged in the eyes l and m , so that the yoke may swing away clear of the top of the receptacle, and obviously the yoke may be hinged to the receptacle in any other suitable manner if preferred.

- 35 In practical use the bucket will be suspended and raised or lowered by means of the rope x running about the sheave w . The receptacle may rest on its bottom when being filled, and if desired the yoke and the bail may be swung away clear of the open top of the receptacle so that the filling of the receptacle may be accomplished without obstruction, after which the arm 10 may be connected to the latch y against the guide 6 and then the bucket may be raised and carried to the desired position above a bin or elsewhere, after which the operator may jerk the cord 7 and thereby release the latch y from

the arm 10 and permit the bucket to tilt by gravity to discharge the load, the receptacle becoming completely inverted so that all the contents thereof necessarily must fall out of the receptacle. The cord 7 may then be used to draw the bucket to the loading place and the operations repeated as before.

Having thus described the invention, what is claimed as new is—

1. A dumping bucket comprising a receptacle, a bail pivoted to the receptacle, a yoke hinged to the top portion of the receptacle and latched to the bail, and a cord carried by the bail for unlatching the yoke.

2. A dumping bucket comprising a receptacle, a bail pivoted to the receptacle and supporting a latch and also a pulley, a yoke hinged to the top portion of the receptacle and having a notched arm to be engaged by the latch, and a cord extending over the pulley and connected to the latch.

3. A dumping bucket comprising a receptacle having a frame provided with trunnions, a bail connected to the trunnions and having a latch mounted thereon, said receptacle having a pair of eyes at the top thereof, a yoke connected with the eyes and having an arm to be engaged by the latch, and a cord connected to the latch.

4. A dumping bucket comprising a receptacle having a side and a bottom, a frame extending about the side and under the bottom and provided with a pair of trunnions, a bail connected to the trunnions and having a horizontal reinforcing beam attached to horizontal portions thereof, a yoke hinged to the side of the receptacle to swing to the bail, a latch on the bail to engage the yoke, a cord connected to the latch to release the yoke therefrom, and a sheave frame connected to the bail.

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

ADAM SCHROEDER.

Witnesses:

PHILIP GEPHART,
T. B. CAREY.