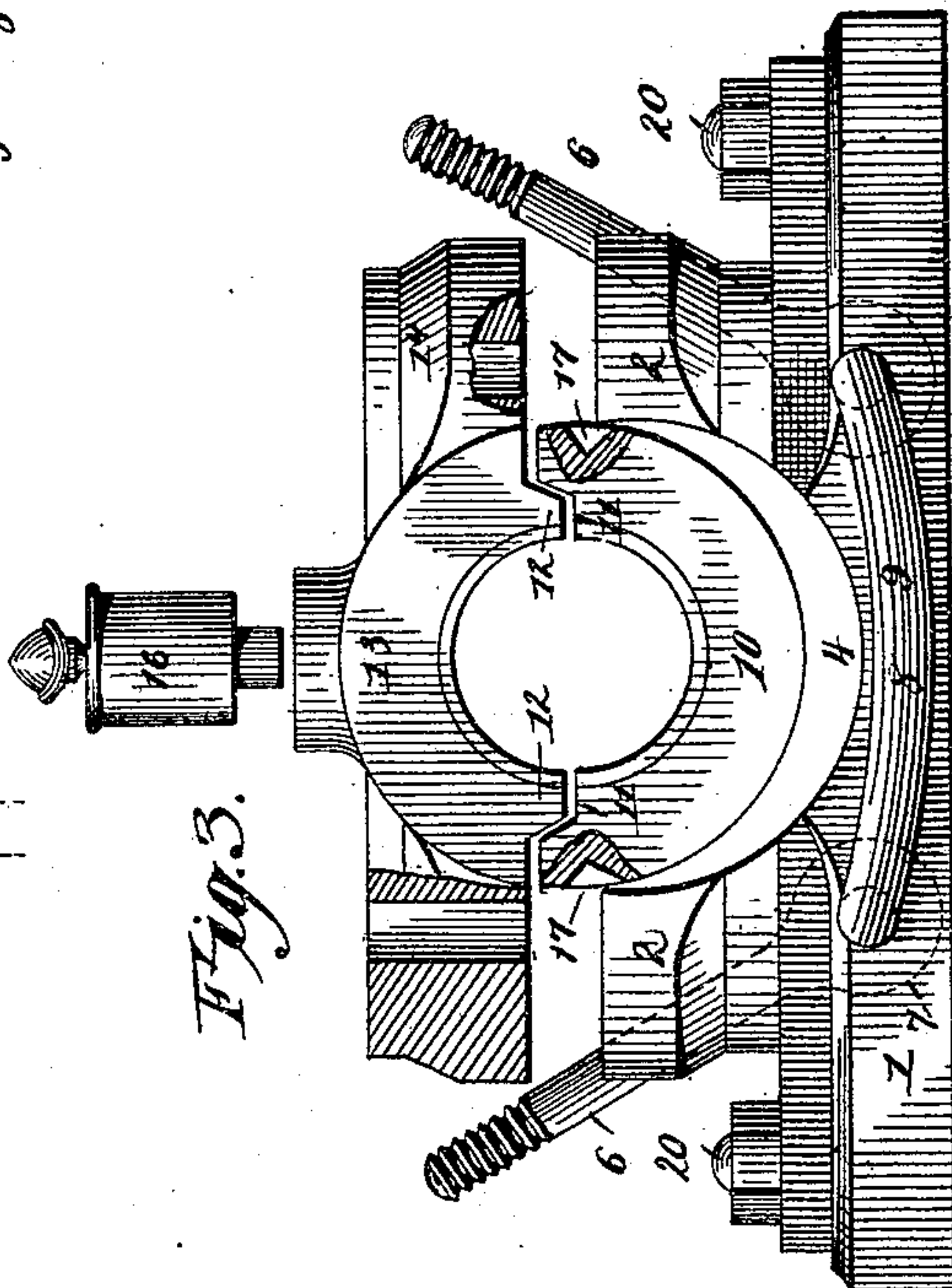
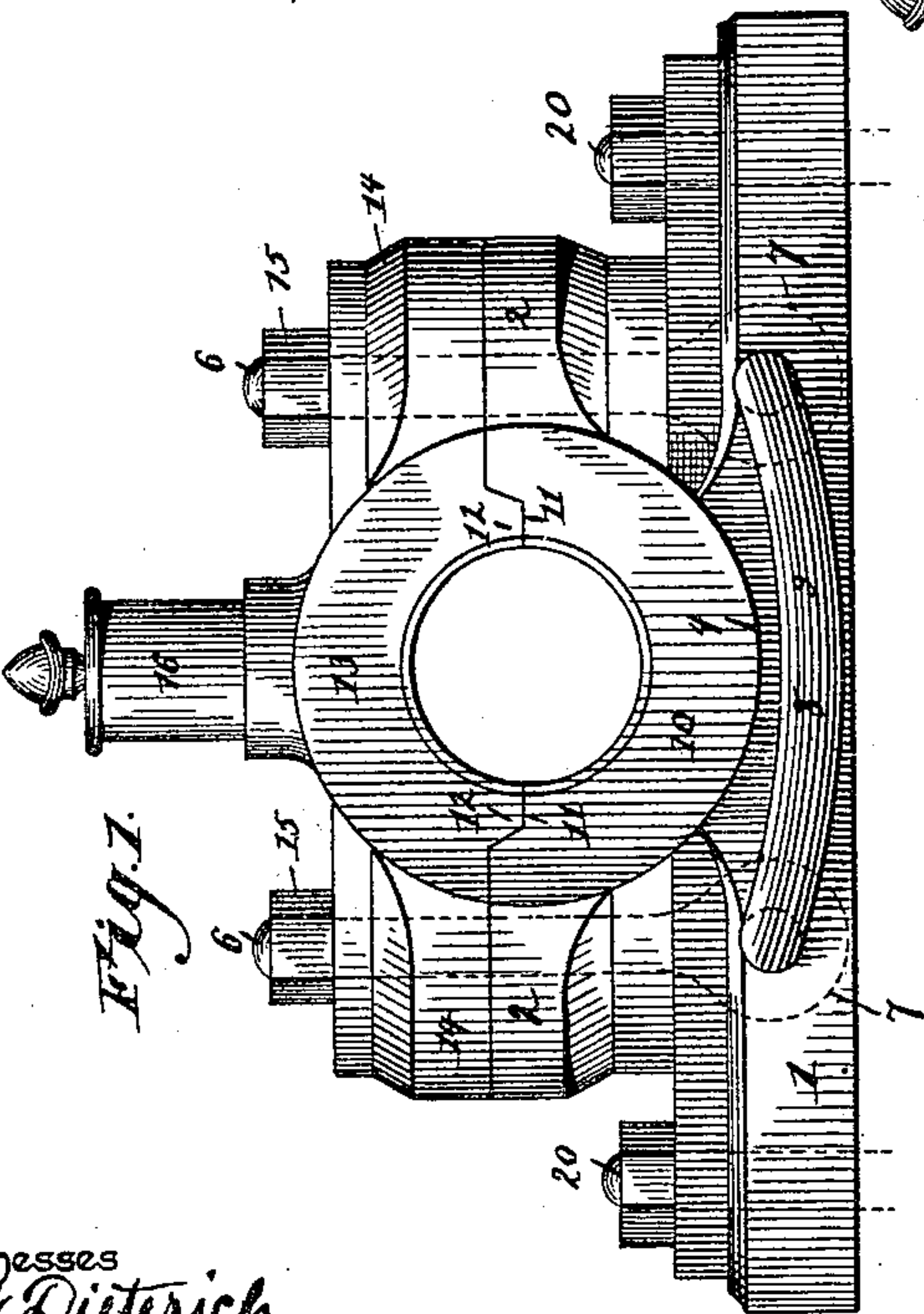
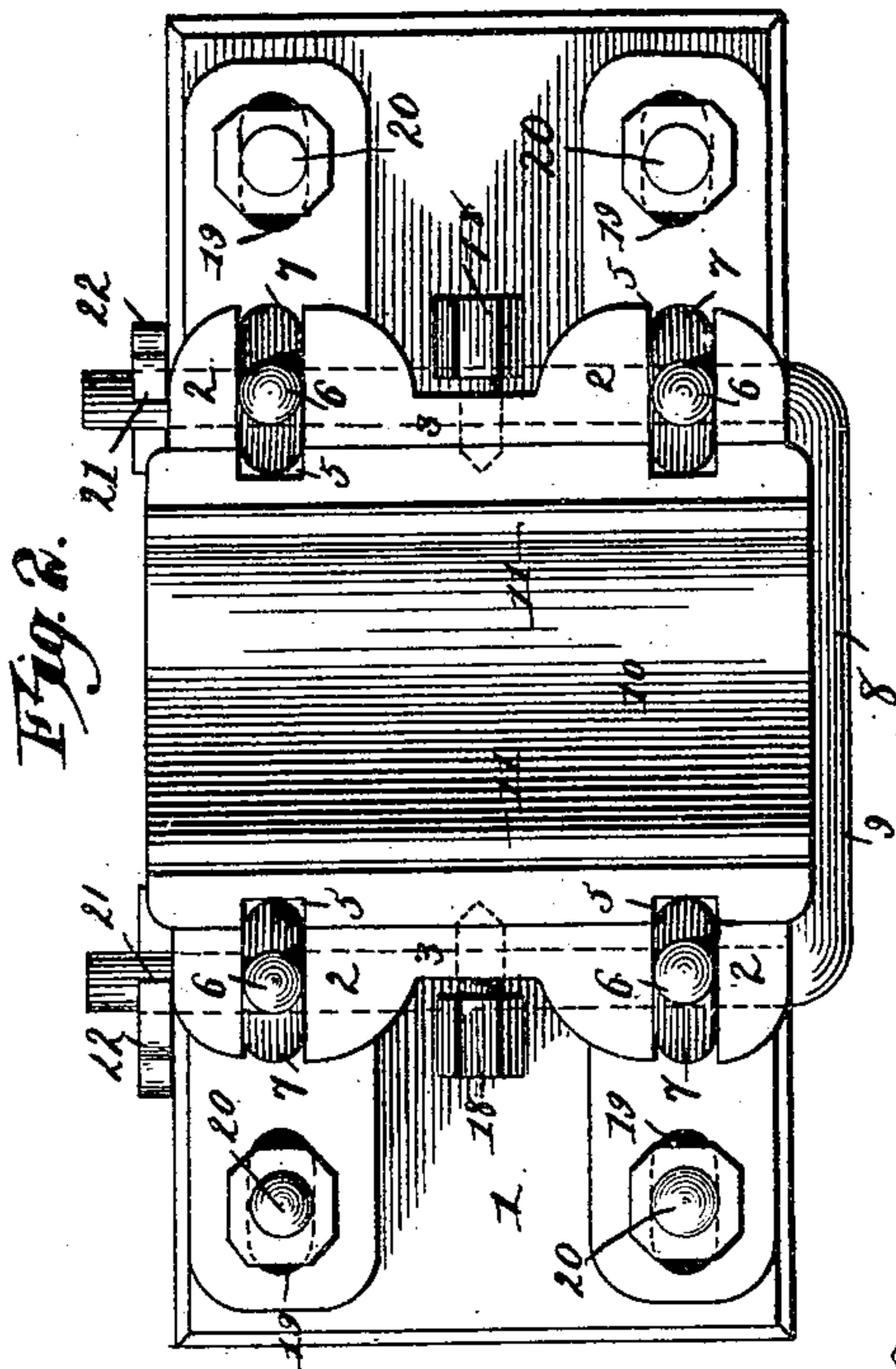


(No Model.)

E. & H. SAWYER.
PORTABLE BOX FOR SHAFTING.

No. 457,843.

Patented Aug. 18, 1891.



Witnesses
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UNITED STATES PATENT OFFICE.

ENOCH SAWYER AND HYRUM SAWYER, OF RUMSEY, MONTANA.

PORTABLE BOX FOR SHAFTING.

SPECIFICATION forming part of Letters Patent No. 457,843, dated August 18, 1891.

Application filed October 17, 1890. Serial No. 368,392. (No model.)

To all whom it may concern:

Be it known that we, ENOCH SAWYER and HYRUM SAWYER, citizens of the United States, residing at Rumsey, in the county of Deer Lodge and State of Montana, have invented a new and useful Portable Box for Shafting, of which the following is a specification.

This invention relates to boxes for shafting; and it has for its object to construct a device of this class in which the boxing proper may be readily removed from the pillow block or seat for the purpose of relining the same with Babbitt metal when necessary.

The invention consists in the improved construction, arrangement, and combination of parts which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, Figure 1 is an end elevation of a box or bearing constructed in accordance with our invention. Fig. 2 is a plan view of the pillow-block or seat. Fig. 3 is an end elevation showing the parts of the device separated from each other.

Like numerals of reference indicate like parts in all the figures of the drawings.

1 designates the pillow-block or seat, which is provided at opposite sides with uprights 2, connected by webs 3. The said uprights and webs, together with the pillow-block or base, are shaped to form the semi-cylindrical recess 4. The uprights 2 and the base 1 are provided with vertical slots 5 to receive the bolts 6, the eyes 7 of which extend into the base for the reception of the arms 8 of a yoke, the cross-bar 9 of which connects the said arms at one end of the pillow-block, the said cross-bar being slightly curved in a downward direction below the bottom of the recess 4.

10 designates the box proper, which is fitted in the recess 4 and is provided at its upper inner edges with recesses 11 to receive the downwardly-extending flanges 12, formed at the inner edges of the box-cover 13. The latter is provided with laterally-extending wings or flanges 14, having vertical perforations for the upper ends of the bolts 6, which are provided with nuts 15 to hold the box-cover in position. An oil-cup 16, of ordinary construction, is mounted upon the upper side of the box-cover.

The upper sides of the boxing 10 are pro-

vided with recesses 17 to receive the points of set-screws 18, which extend horizontally through the webs 3 and which serve to retain the said boxing in position in the pillow-block. The latter is provided with slots 19 to receive the bolts 20, by means of which it is mounted in position for operation. These set-screws serve to retain the boxing 10 in position, as will be readily understood; but the points of the set-screws do not bear any portion of the weight of the shaft or boxing 10, which rests entirely upon the pillow-block.

The outer ends of the arms 8 of the yoke, by means of which the bolts 6 are retained in position, are provided with slots 21 to receive split keys 22, by means of which the said yoke is securely retained.

The operation of our improved shaft-boxing will be readily understood. When it shall be desired to remove the boxing for the purpose of renewing the lining therein, this may be accomplished by removing the nuts 15, when the box-cover 13 may be lifted off. The upper ends of the bolts 6 may now be tilted slightly in an outward direction and the set-screw 18 loosened. The shaft is then slightly raised, say about one-sixteenth of an inch, and the box may then readily be slid out at either end of the pillow-block. In cases where the latter is so arranged as to be inaccessible from either end, the boxing 10 may be removed by turning it half-way around in its segmental seat in the pillow-block, when it may be readily lifted out at the top.

It will be seen by this invention that the boxing is capable of being very easily and quickly removed and in such a manner as to obviate the necessity of removing the shaft, as well as the danger of causing injury by springing the latter.

The boxing, as described, is accessible from either end as well as from the top of the seat or pillow block, and the general construction of the device is very simple and inexpensive.

Having thus described our invention, what we claim is—

1. The combination of the seat or pillow-block having a semi-cylindrical recess concentric with the shaft to be supported, the semi-cylindrical boxing fitted entirely within and having complete bearing in said recess and capable of being rotated therein around the

axis of the shaft supported in said boxing without removing the shaft, a cover secured to the seat or pillow-block and forming a bearing for the upper half of the shaft, and set-
5 screws in the side walls of the pillow-block, adapted to engage the recesses in the sides of the boxing and lock the latter against rotation, whereby the weight of the boxing and shaft is distributed to the seat or pillow-block
10 and is not borne by the set-screws, substantially as and for the purpose set forth.

2. The combination of the pillow-block having a segmental recess and provided with vertical slots extending through the uprights
15 forming part of the side walls of said recess, the boxing mounted in the latter and provided with recesses at its upper inner edges, the box-cover having downwardly-extending flanges to fit in said recesses and provided with
20 outwardly-extending wings having vertical perforations, and the connecting-bolts mounted pivotally in the base of the pillow-block and extending upwardly in the latter and

through the wings of the box-top, substantially as and for the purpose herein set forth. 25

3. The combination of the base or pillow-block having a semi-cylindrical recess and provided with vertical slots extending through uprights forming part of the side walls of said
30 recess, the yoke the arms of which are extended transversely through said slots and through the eyes of bolts seated therein, the split keys mounted in slots at the outer ends of the arms of said yoke, the boxing seated in the recess of the pillow-block, and the box-
35 cover having slots for the passage of the upper ends of the connecting-bolts, substantially as and for the purpose herein set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures 40 in presence of two witnesses.

ENOCH SAWYER.
HYRUM SAWYER.

Witnesses:

G. J. BEEK,
GEO. A. DAY.