

No. 868,064.

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M. F. BAGLEY.
CAR JOURNAL FILER OR SMOOTHER.
APPLICATION FILED MAY 25, 1906.

Fig. 1.

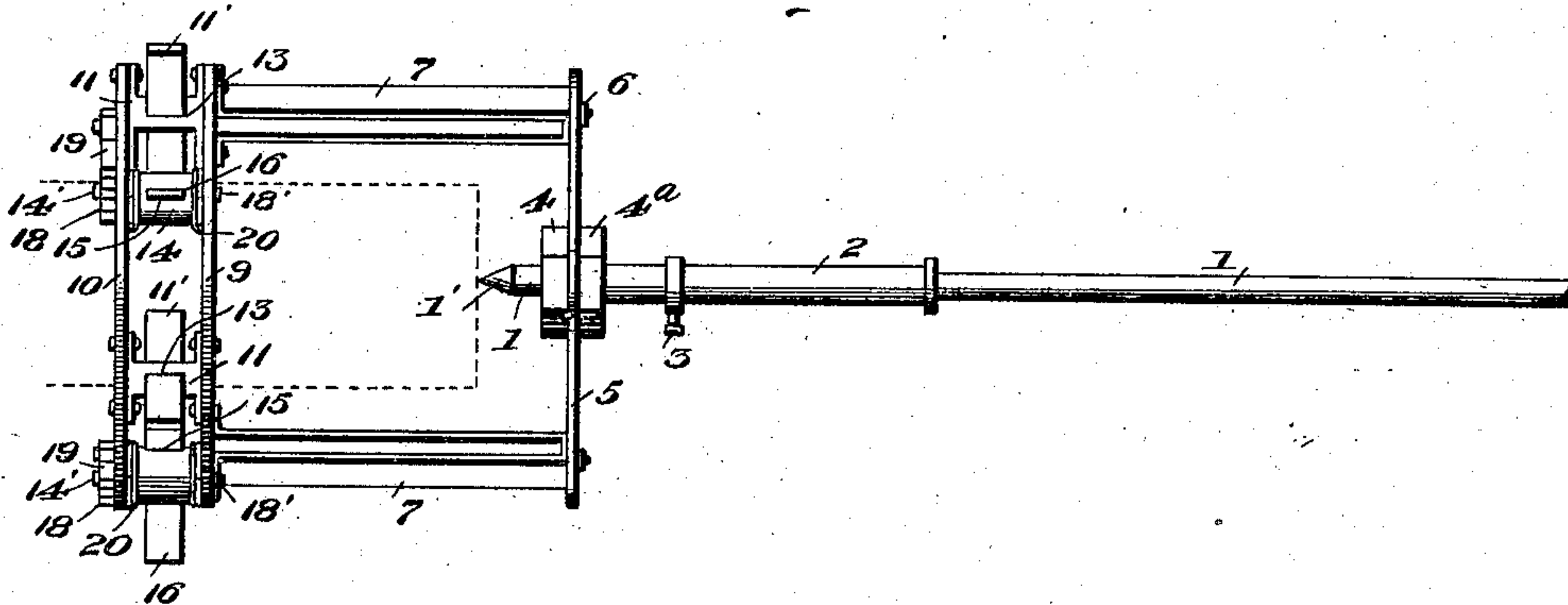


Fig. 3.

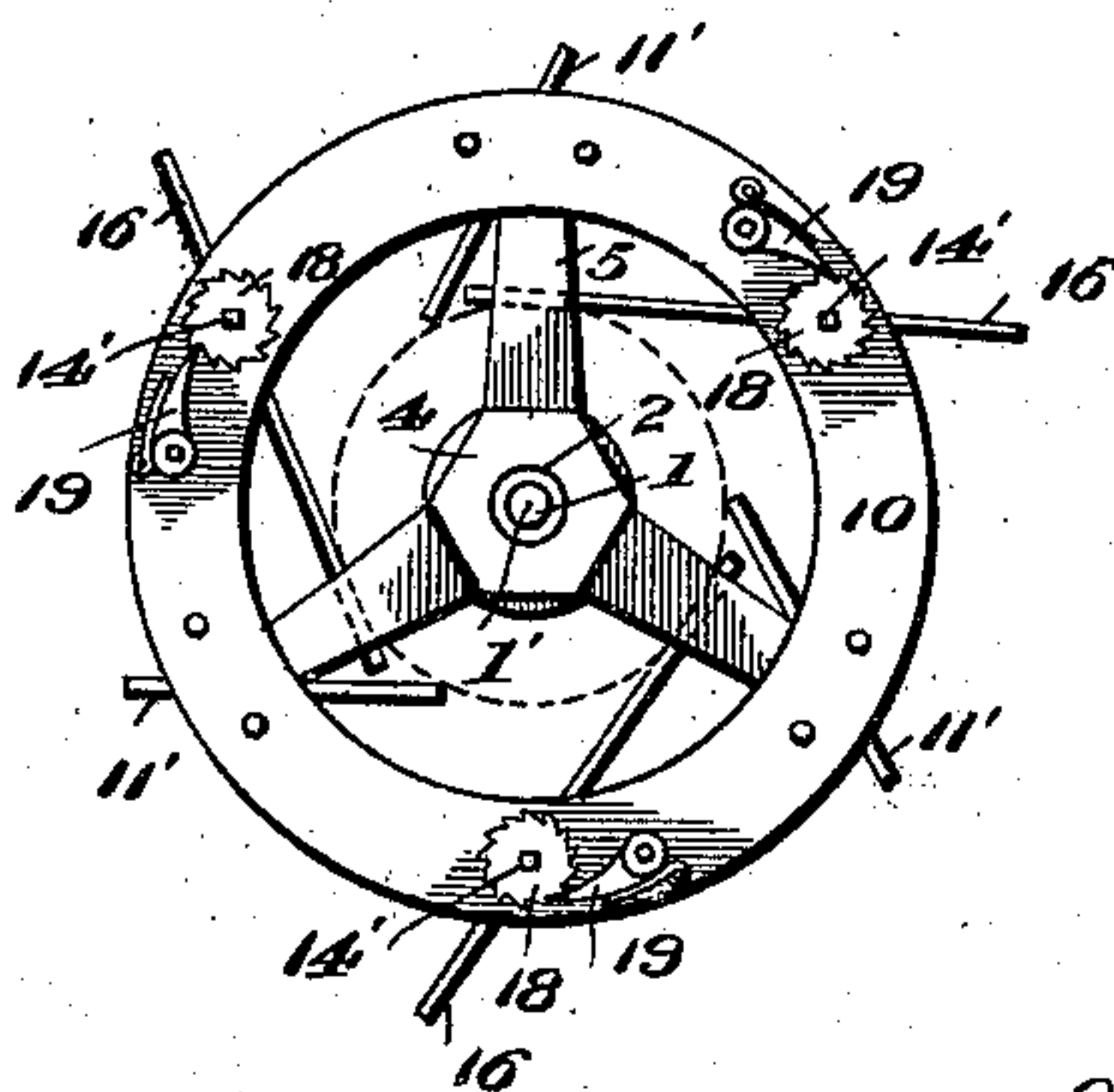


Fig. 2.

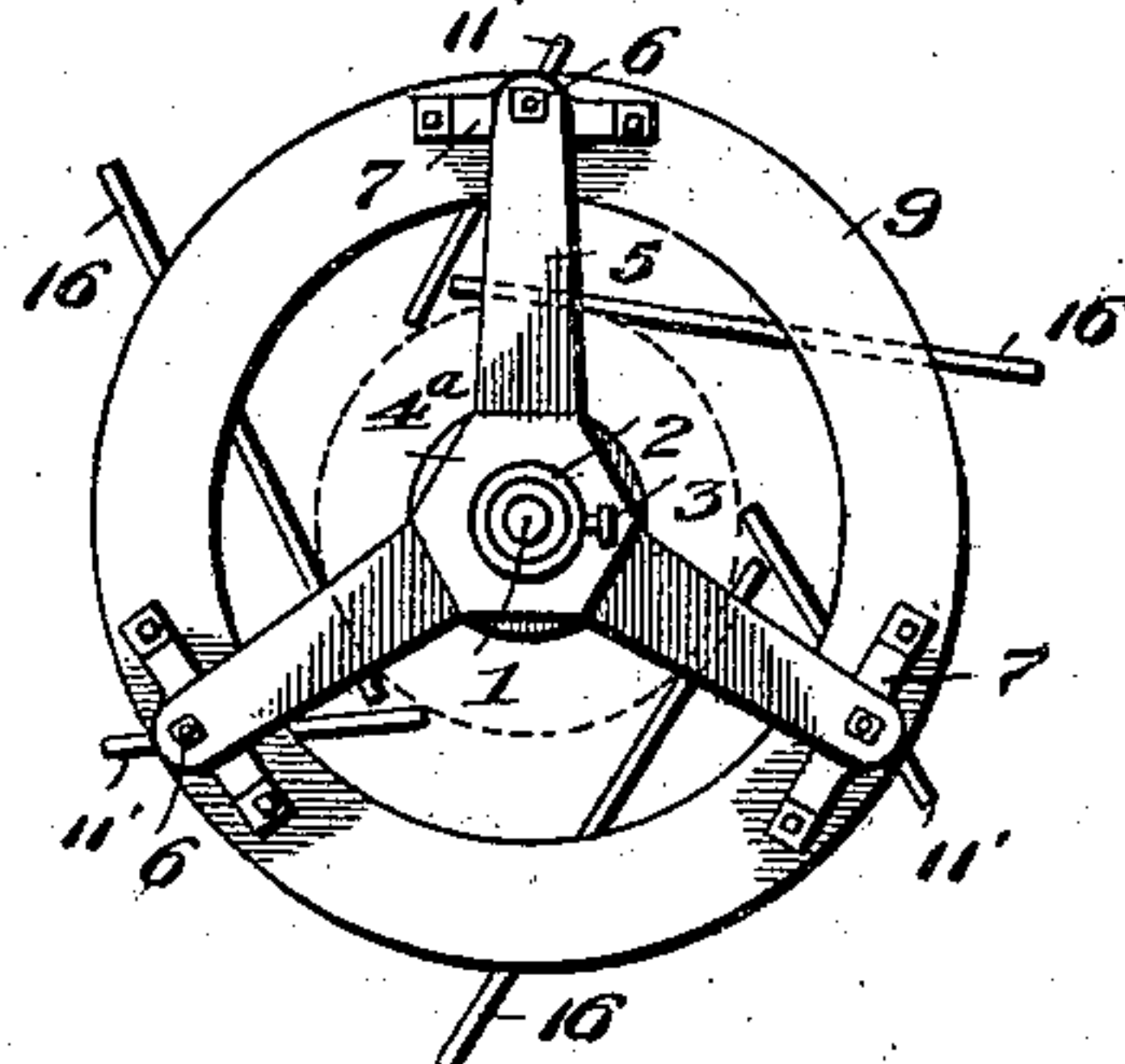


Fig. 4.

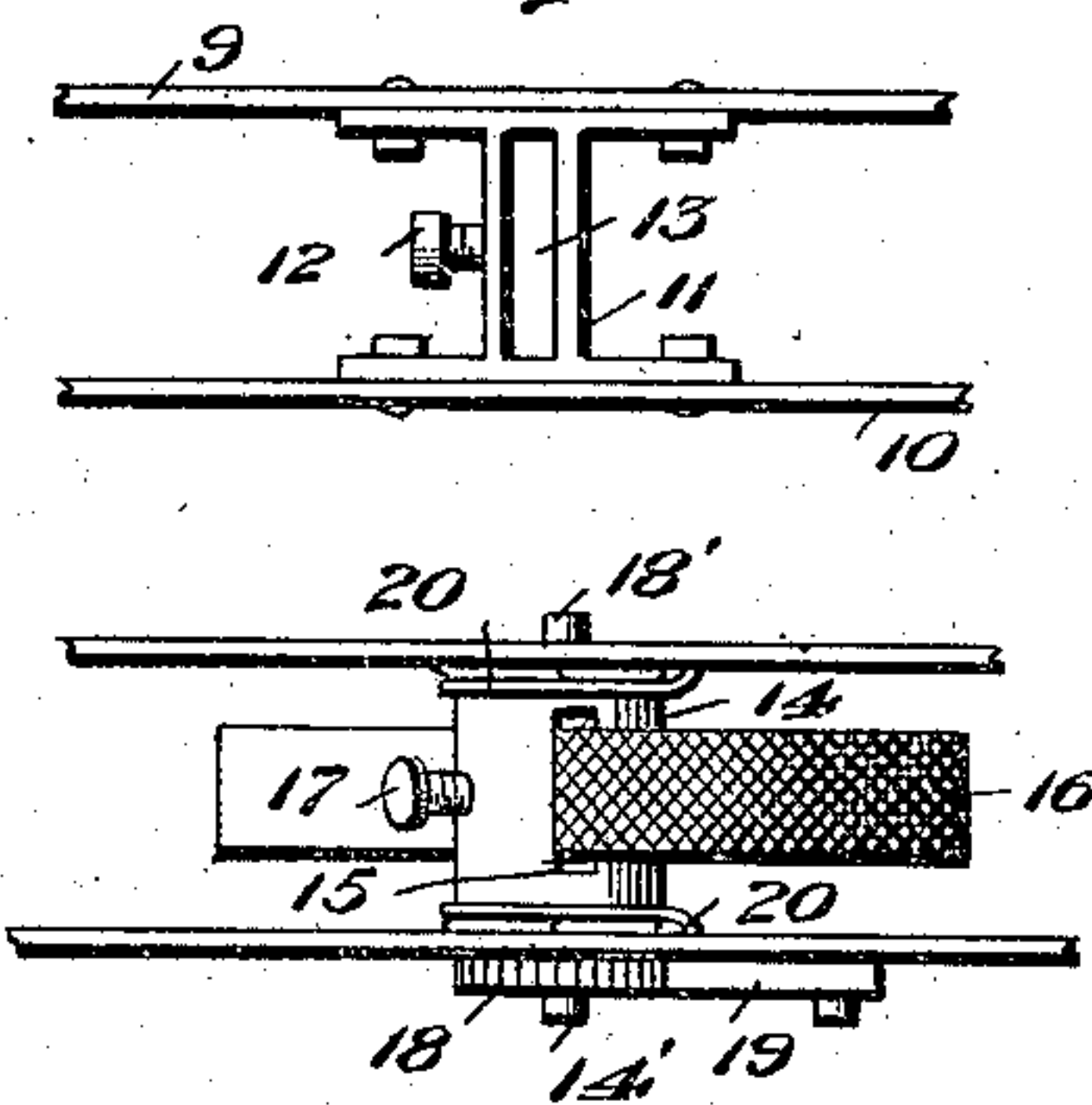


Fig. 5.

Witnesses

Witnesses
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UNITED STATES PATENT OFFICE.

MOSES F. BAGLEY, OF EVANSVILLE, INDIANA, ASSIGNOR OF ONE-HALF TO JOHN C. MARTIN,
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CAR-JOURNAL FILER OR SMOOTHER.

No. 868,064.

Specification of Letters Patent.

Patented Oct. 15, 1907.

Application filed May 25, 1906. Serial No. 318,701.

To all whom it may concern:

Be it known that I, MOSES F. BAGLEY, a citizen of the United States, residing at Evansville, county of Vanderburg, and State of Indiana, have invented certain new and useful Improvements in Car-Journal Filers or Smoothers, of which the following is a specification.

This invention relates to car journal filers or smoothers.

Once a car journal is roughened, it is practically useless until smoothed or filed.

The object of the present invention is the provision of a car journal filer or smoother of improved construction which can be rapidly and easily applied to the damaged journal and operated by a hand or other motor to quickly and accurately file or smooth the journal, the invention being intended to have means whereby it can be accurately centered on the journal and guided in its rotation and also to have means for adjusting the filing or smoothing devices as may be desired and to keep them properly against the journal.

The invention is set forth fully in the appended description and claims.

In the accompanying drawings: Figure 1 is a side view, dotted lines illustrating a car journal; Fig. 2 is an end view; Fig. 3 is a view of the opposite end of the device; and Figs. 4 and 5 are details.

There are two parallel flat rings 9 and 10 which are connected firmly together in separated or spaced relation by guide-holders 11 having slots 13 and set or clamping screws 12. Guides 11' are held in slots 13 by screws 12.

Alternating with the guide-holders 11, considered circularly of the plates 9 and 10, are sets of screws 14' and 18' threaded into file holders 14 having slots 15 and clamping screws 17 (see Fig. 5). The screws 14' and 18' constitute journals by which the file-holders 14 are pivotally mounted between the annular plates 9 and 10. 16 represent files which are held in the slot 15 by the clamping screws 17, said files being adapted to act on the journal of the car wheel to be filed or smoothed and to automatically press these files against the car wheel journal, springs 20 are provided which encircle the respective ends of the file-holder 14 and have one end connected to said file-holders and the other end secured to the circular plates 9 and 10, respectively. Secured to screws 14' are ratchet wheels 18 with which pawls 19, pivoted to plate 10, engage, said pawls and ratchet wheels constituting a means adapted to hold the files away from the car wheel journal when the file is being applied to or removed from the car wheel journal, but permitting the files to always bear yieldingly against the car wheel journal during the filing operation.

Secured to the annular plate 9 are yokes 7 which are connected to a tri-armed frame 5 by nuts 6, the frame 5 being parallel to plates 9 and 10. Passing through the center of the plate 5 is a tube 2 which is clamped to plate 5 by nuts 4 and 4". Slidable lengthwise and within the tube 2 is a shaft 1 which has centering point 1' that lies in the exact longitudinal axis of the device, that is to say, in the axis running through the centers of the circles on which the plates 9 and 10 are struck. A collar and clamp-screw 3 secure shaft 1 in tube 2.

The device is used in the following manner, assuming that the injured car wheel journal is on the railroad track and exposed for treatment. The plates 9 and 10 are slipped over the car wheel journal and the clamping screw 3 is loosened and the shaft 1 slid within the tube 2 to bring the centering point 1' to the exact center of the journal. The guides 11', which are disposed somewhat slantwise, are then adjusted to just touch the car wheel journal and the screws 12 are then used to firmly clamp the guides 11' where adjusted. The point 1' is then withdrawn by sliding the shaft 1 and the screw 3 is used to clamp shaft 1 and tube 2 firmly together. The files 16 are next adjusted to the desired extent to cause them to properly bear upon the journal and the clamping screws 17 are screwed down on the files to hold them tightly, said files lying in a substantially tangential relation to the car wheel journal and are held yieldingly against it by the springs 20. A suitable hand motor is connected to the shaft 1 and the entire device is rotated on the car wheel journal, the operator shifting the shaft 1 by hand longitudinally of itself to cause the files 16 to cover the entire length of the journal.

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

1. In a journal filer or smoother, the combination with a rotary frame adapted to fit around the journal, of means for guiding or centering said frame so that it will rotate true in relation to the journal, filing or smoothing devices pivotally mounted on the frame to bear yieldingly on the journal being smoothed, and springs coacting with the frame and the respective filing devices.

2. In a journal filer or smoother, the combination with a rotary frame adapted to fit around the journal, of means for guiding said frame or centering it so that it will rotate true in relation to the journal, and filing or smoothing devices pivotally mounted on the frame and having spring-actuating means and pawl and ratchet locking means for holding the filing or smoothing devices retracted.

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

MOSES F. BAGLEY.

Witnesses:

FRANK E. GORE.

W. B. LE MASTERS.