

No. 656,554.

Patented Aug. 21, 1900.

G. H. LEATHERS.
BOXING FOR VEHICLE AXLES.

(Application filed May 25, 1900.)

(No Model.)

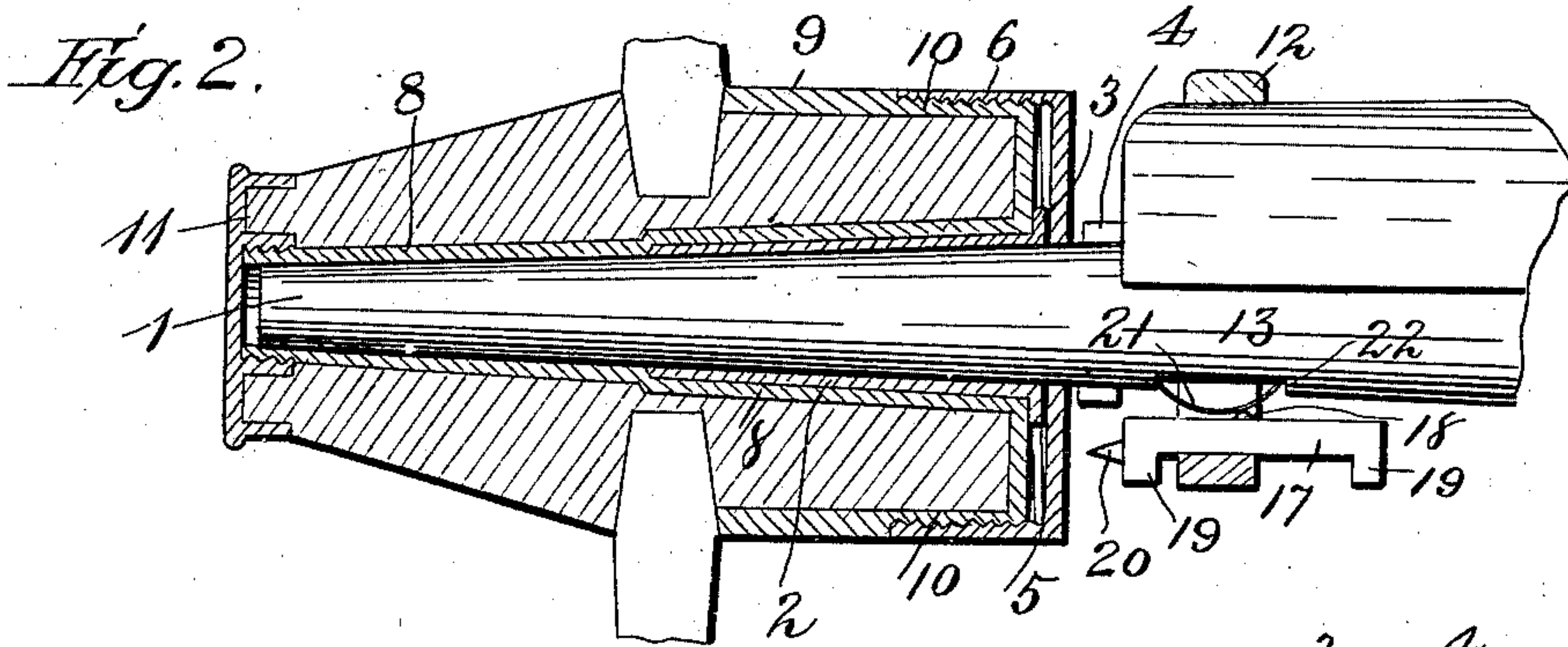
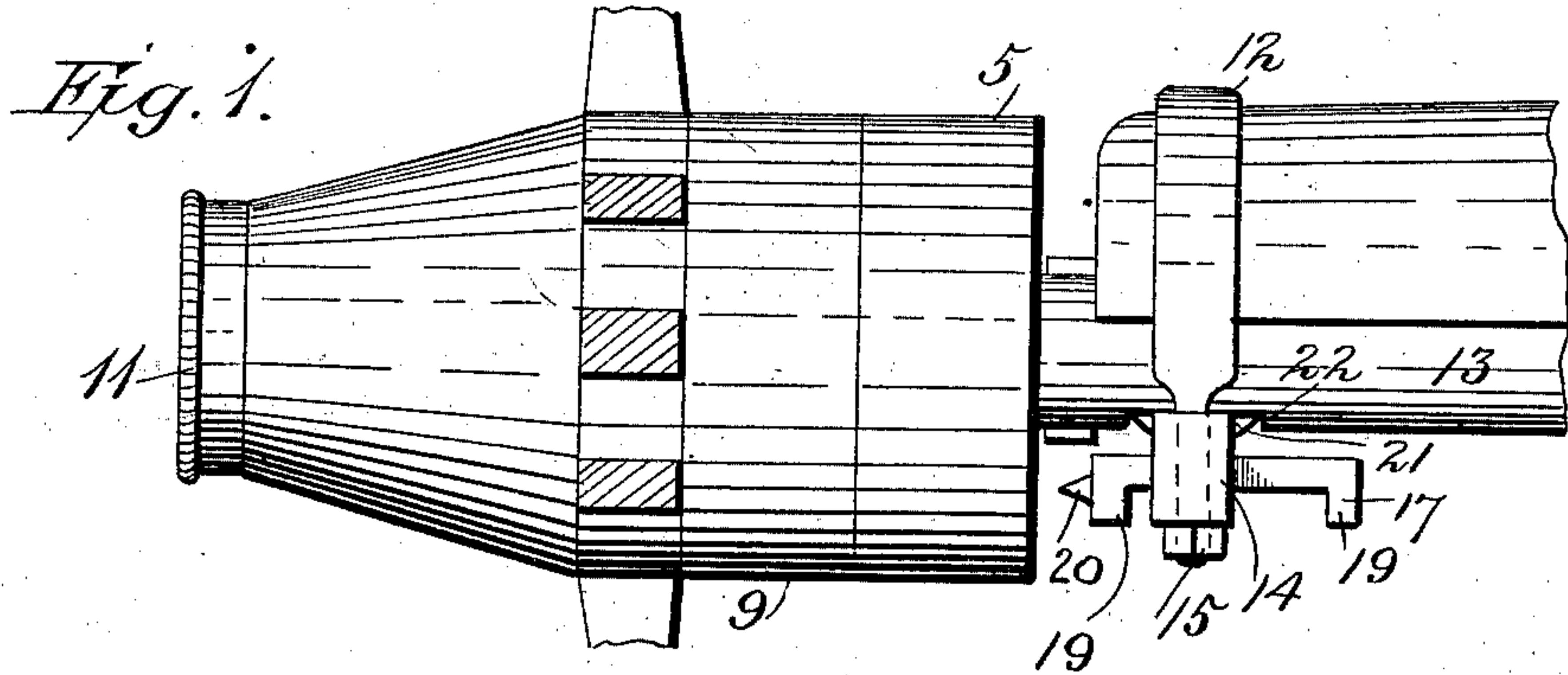


Fig. 3.

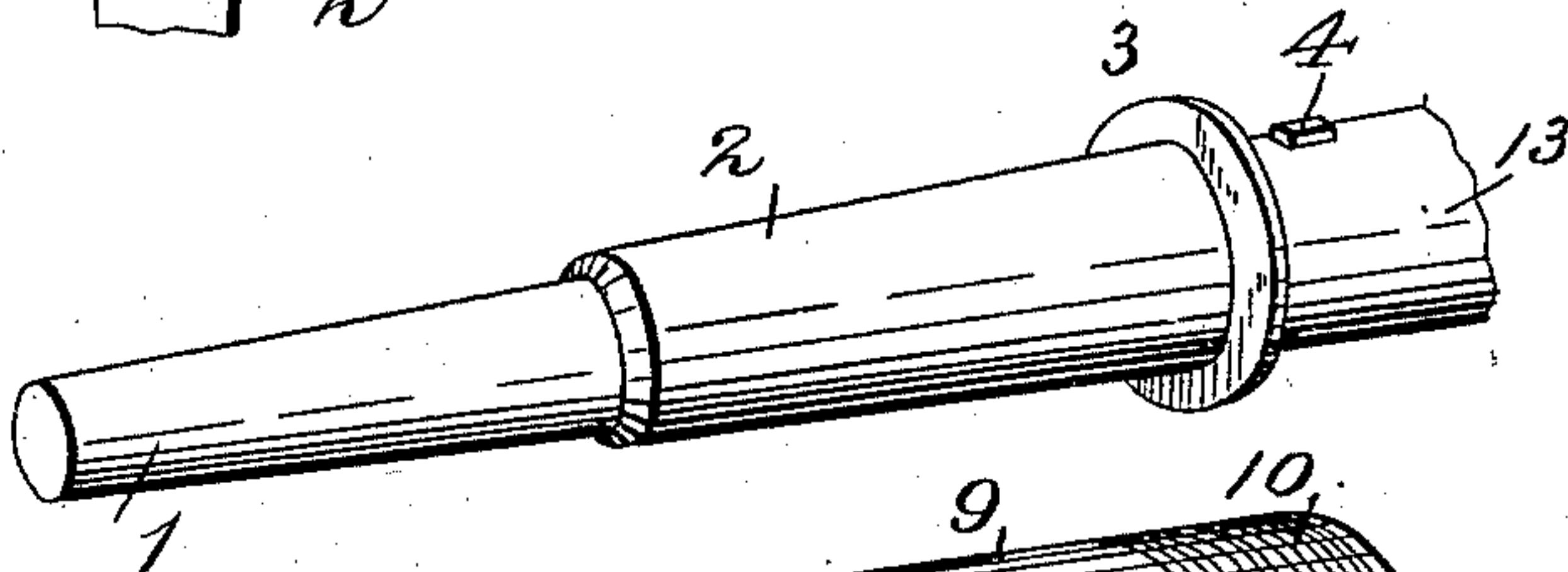


Fig. 4.

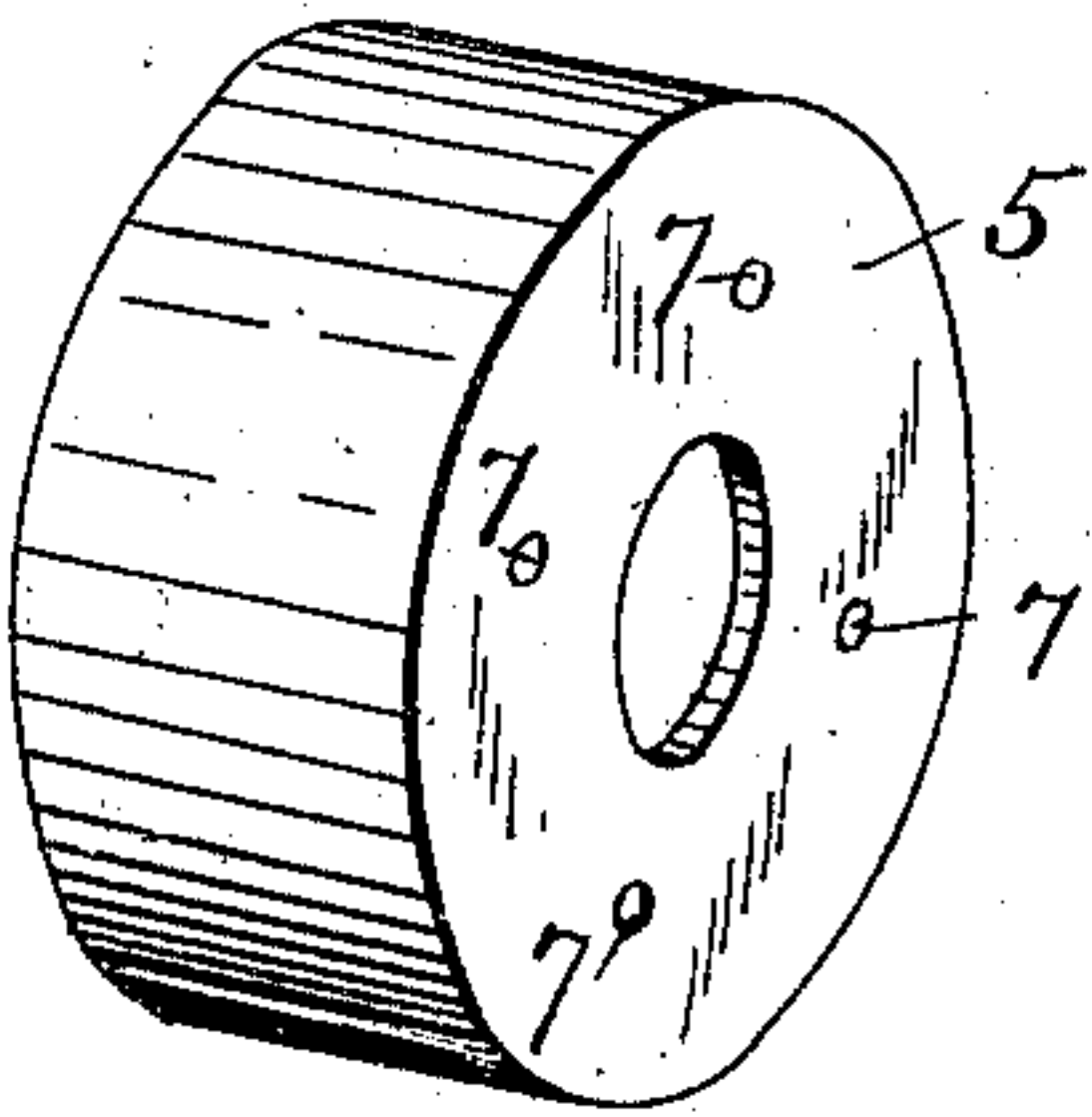


Fig. 6.

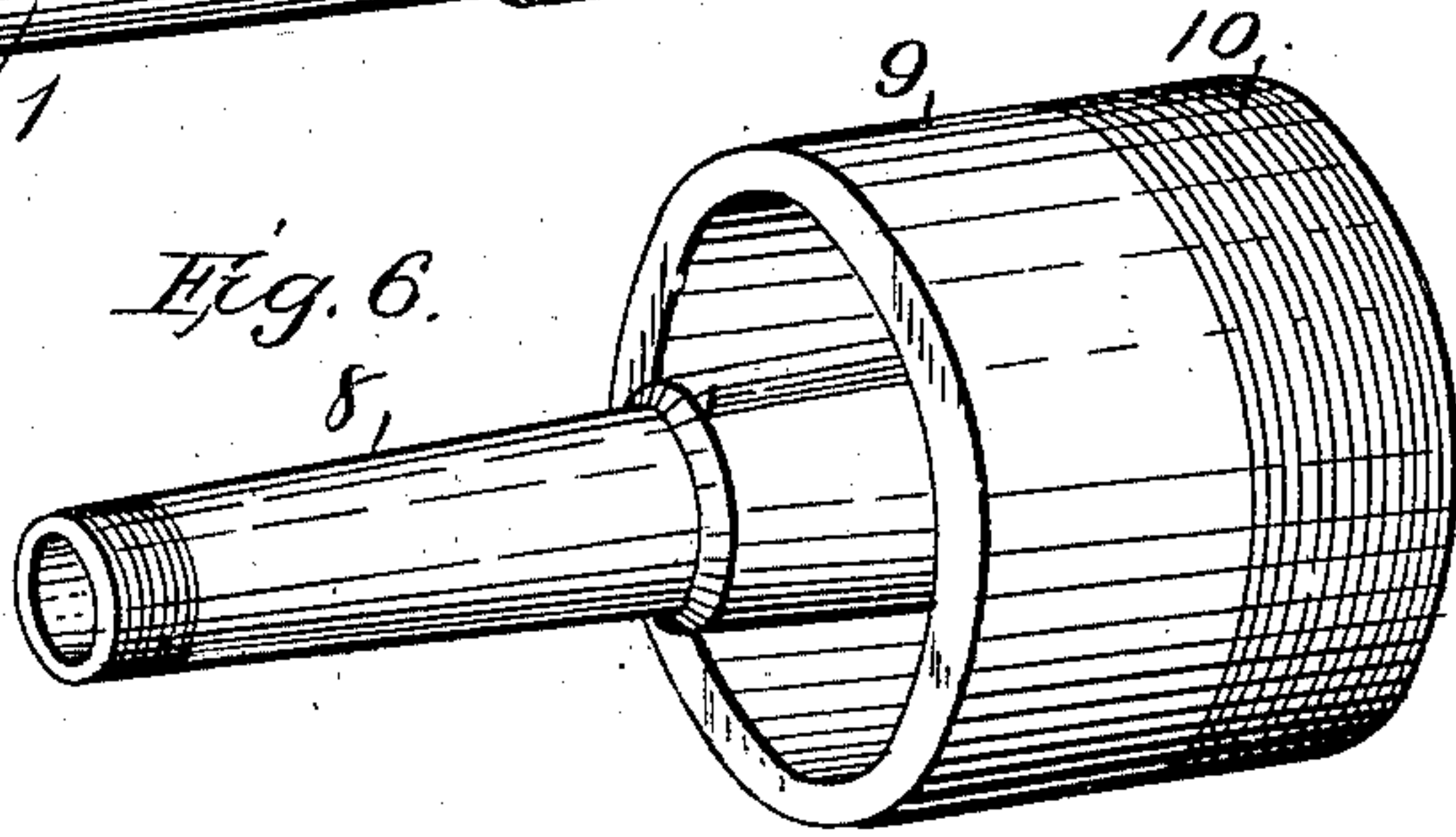
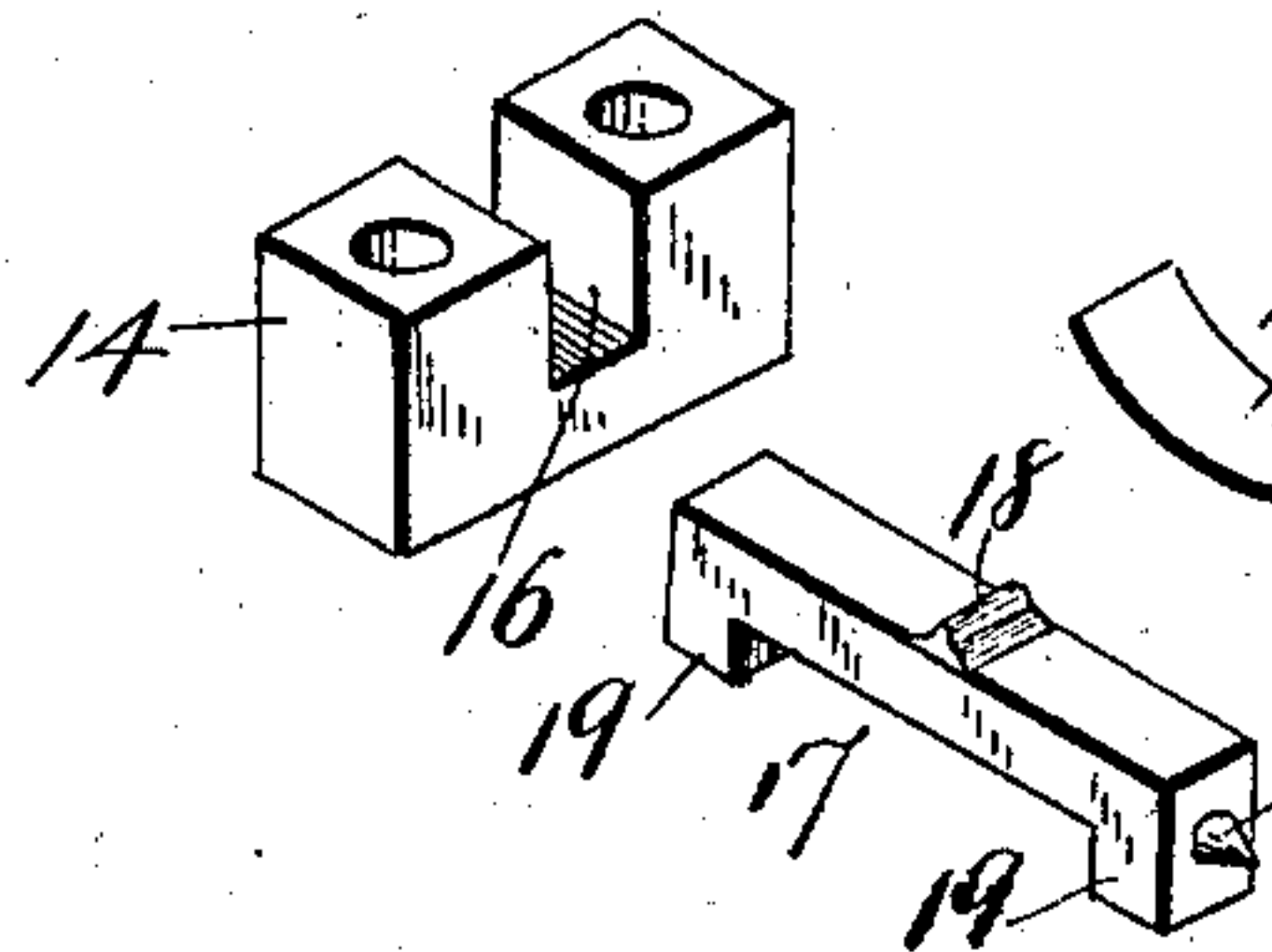


Fig. 5.



Witnesses:
F. L. Ourand
E. P. Bunker

Inventor:
Geo. H. Leathers,
By S. P. Rogers & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

GEORGE H. LEATHERS, OF MOUNT VERNON, MISSOURI.

BOXING FOR VEHICLE-AXLES.

SPECIFICATION forming part of Letters Patent No. 656,554, dated August 21, 1900.

Application filed May 25, 1900. Serial No. 17,995. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. LEATHERS, a citizen of the United States, residing at Mount Vernon, in the county of Lawrence and State of Missouri, have invented new and useful Improvements in Boxings for Vehicle-Axles, of which the following is a specification.

My invention relates to boxings for vehicle-axles; and the objects of the same are to provide a device of this kind which will exclude dirt and grit from the axle-bearing and prevent the lubricant used on the spindle from working out and soiling the hands and clothing wherever the axle is to be oiled or lubricated. I attain these objects by means of the construction shown in the accompanying drawings, in which—

Figure 1 is a side view of one end of a vehicle-axle, showing an axle-box and sand-band made in accordance with my invention applied thereto. Fig. 2 is a longitudinal section through the same. Fig. 3 is a detail perspective of the spindle. Fig. 4 is a similar view of the sand-band. Fig. 5 is a detail view showing the axle-clip and the parts which hold the sand-band upon the axle. Fig. 6 is a detail view of the axle-skein and its boxings.

Like numerals designate like parts in the different views.

In said drawings, 1 is an axle-spindle, which may be of ordinary construction and may be provided with a sleeve 2, having a collar 3. Fitting snugly against the shoulder 4 of the spindle is a sand-band 5, interiorly screw-threaded at 6 and provided with a series of indentations 7 on its surface. The axle-skein 8 is provided with a boxing 9, exteriorly threaded at 10 to fit within the sand-band 5, and at its outer end this skein is threaded to receive the milled cap-nut 11. A clip 12 straddles the axle 13, and the ends of the clip are passed through a block 14 and adjusted by the nuts 15. The block 14 has a central recess 16, and a key 17 is seated in the recess.

The key has a boss 18 on its upper surface, two lugs 19 at its ends, and a point or pin 20 projecting outward from one of its ends. A bowed spring 21 rests upon the boss 18 of the key, and the ends of the spring rest against shoulders 22, formed on the under surface of the axle 13. The point of pin 20 is designed to fit any one of the indentations 7 to hold the said band 5 from revolving with the wheel when it is desired to remove the wheel. When it is desired to remove the wheel and boxing 9 for oiling, the point 20 is engaged with one of the indentations 7 in the sand-band, thus preventing said sand-band from revolving on the spindle while the wheel is being turned to unscrew the boxing 9 from said sand-band.

It will be obvious from the foregoing that my invention is simple and efficient, will exclude grit and sand from the bearings, and at the same time will permit ready removal of the wheel for oiling.

Having thus fully described my invention, what I claim is—

1. An axle-box comprising a skein having a threaded boxing at its inner end, a sand-band surrounding the axle and connected to the boxing on the skein, a clip straddling the axle, the ends of the clip passing through a block, and a key seated on the block and having a point for engaging the sand-band, substantially as described.

2. An axle-box comprising a skein having a boxing at its inner end, a sand-band engaging said boxing, means for preventing the rotation of said sand-band, and a cap-nut fitting the outer end of the skein, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

GEORGE H. LEATHERS.

Witnesses:

JOHN C. TURK,
WM. FREDRICK.