

No. 661,388.

Patented Nov. 6, 1900.

F. A. TERPENING.
TIRE TIGHTENER.

(Application filed May 8, 1900.)

(No Model.)

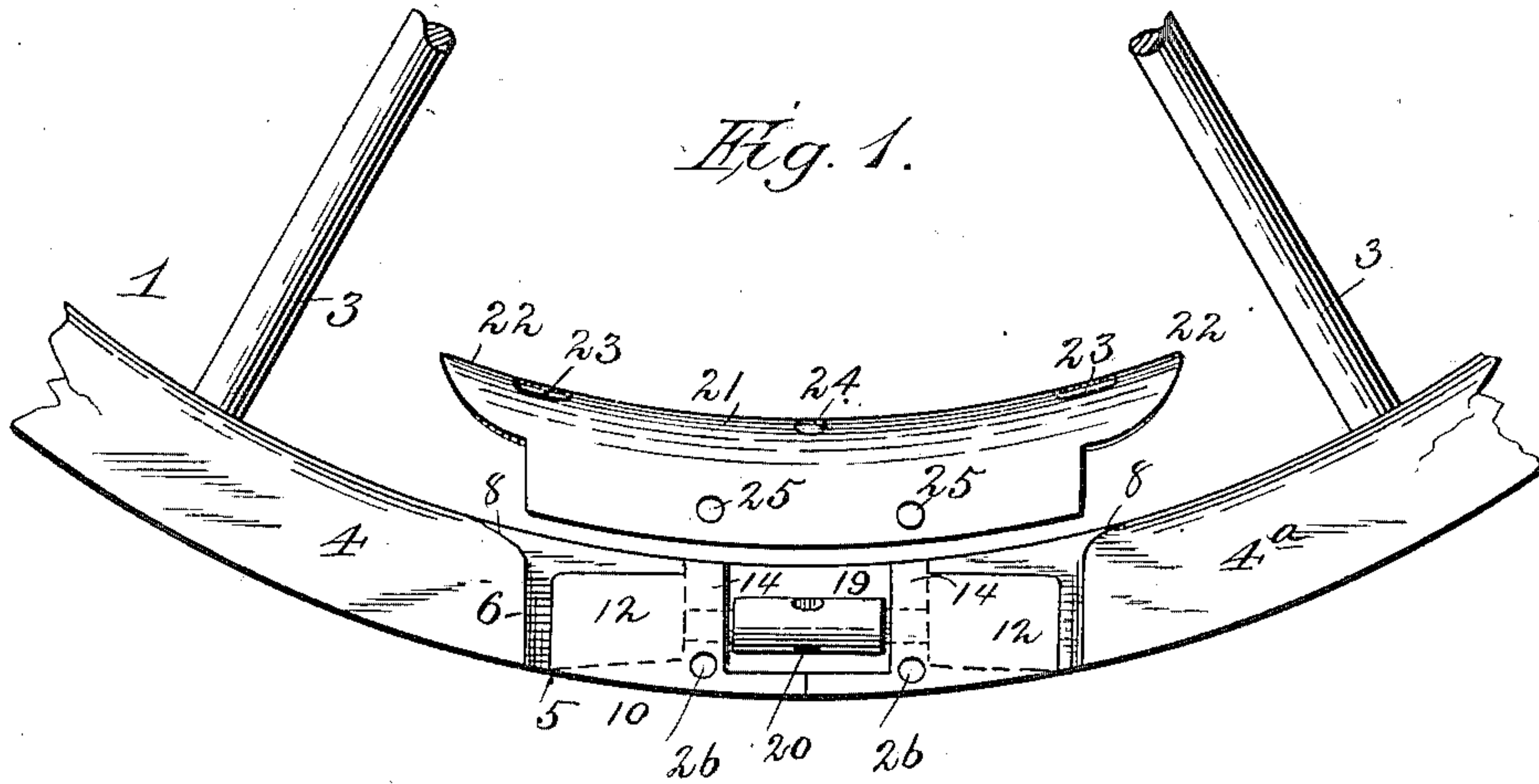


Fig. 6.

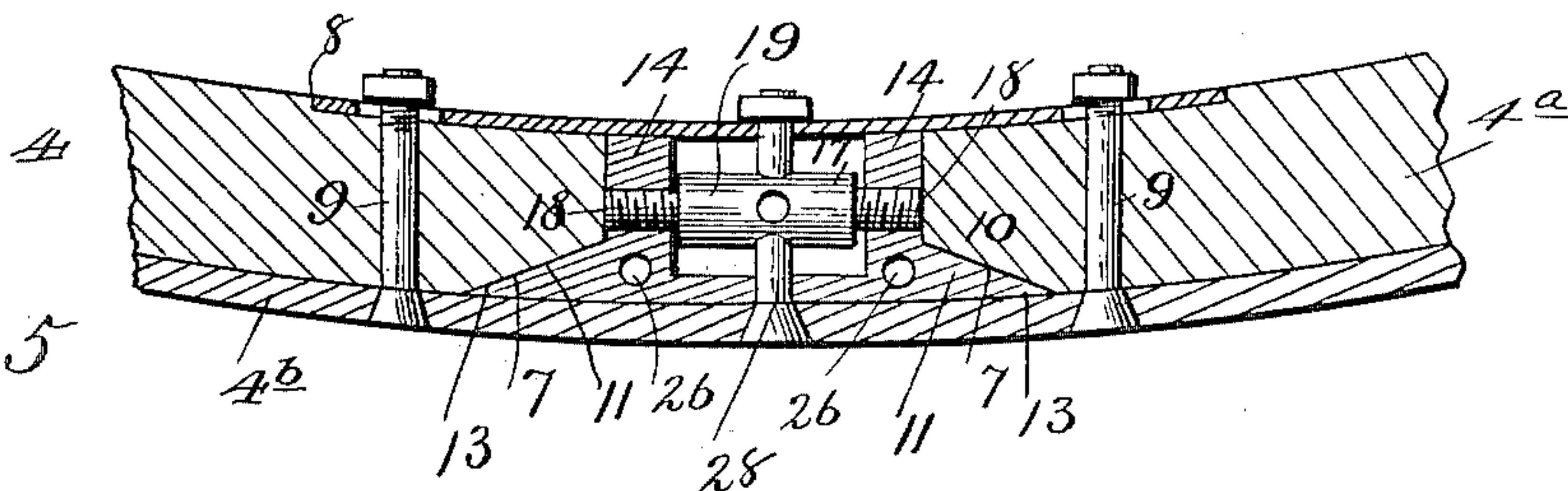


Fig. 5.

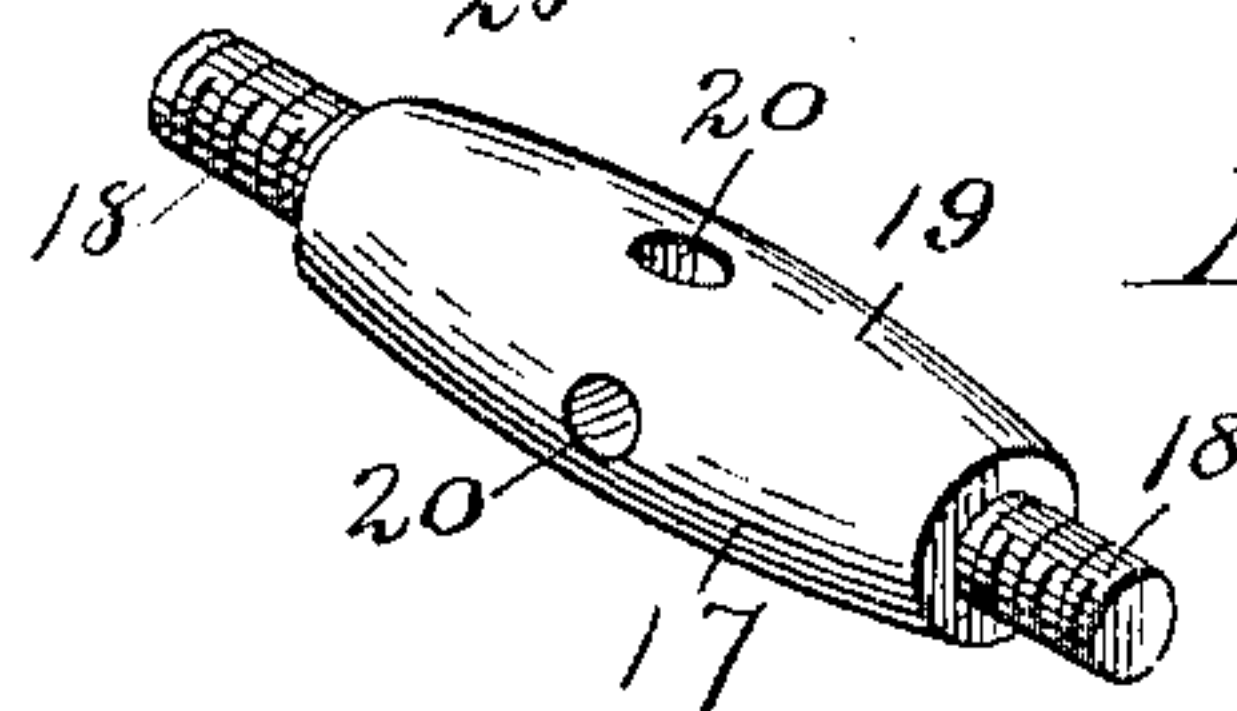
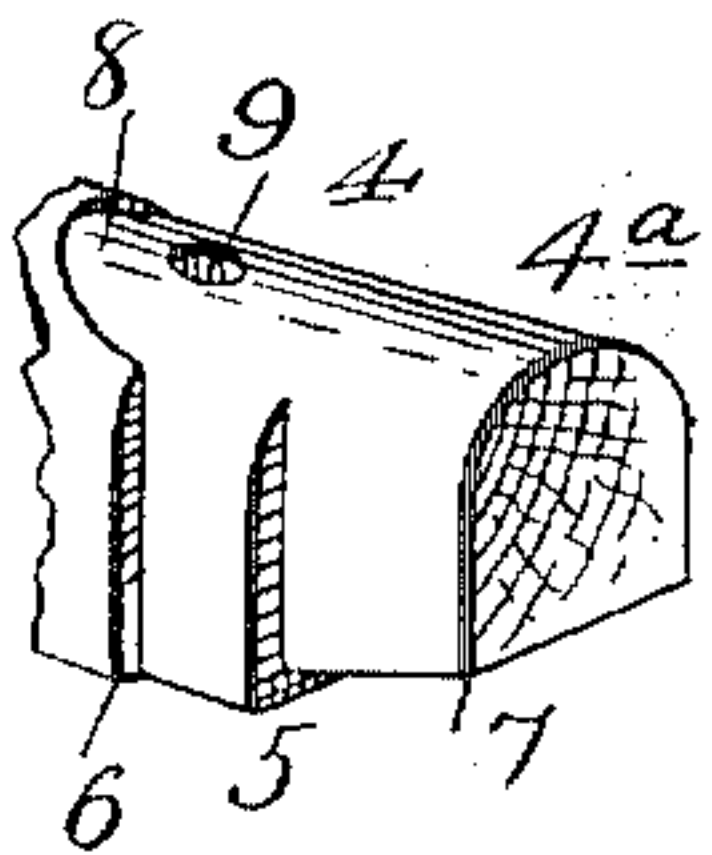


Fig. 3.

Fig. 4.

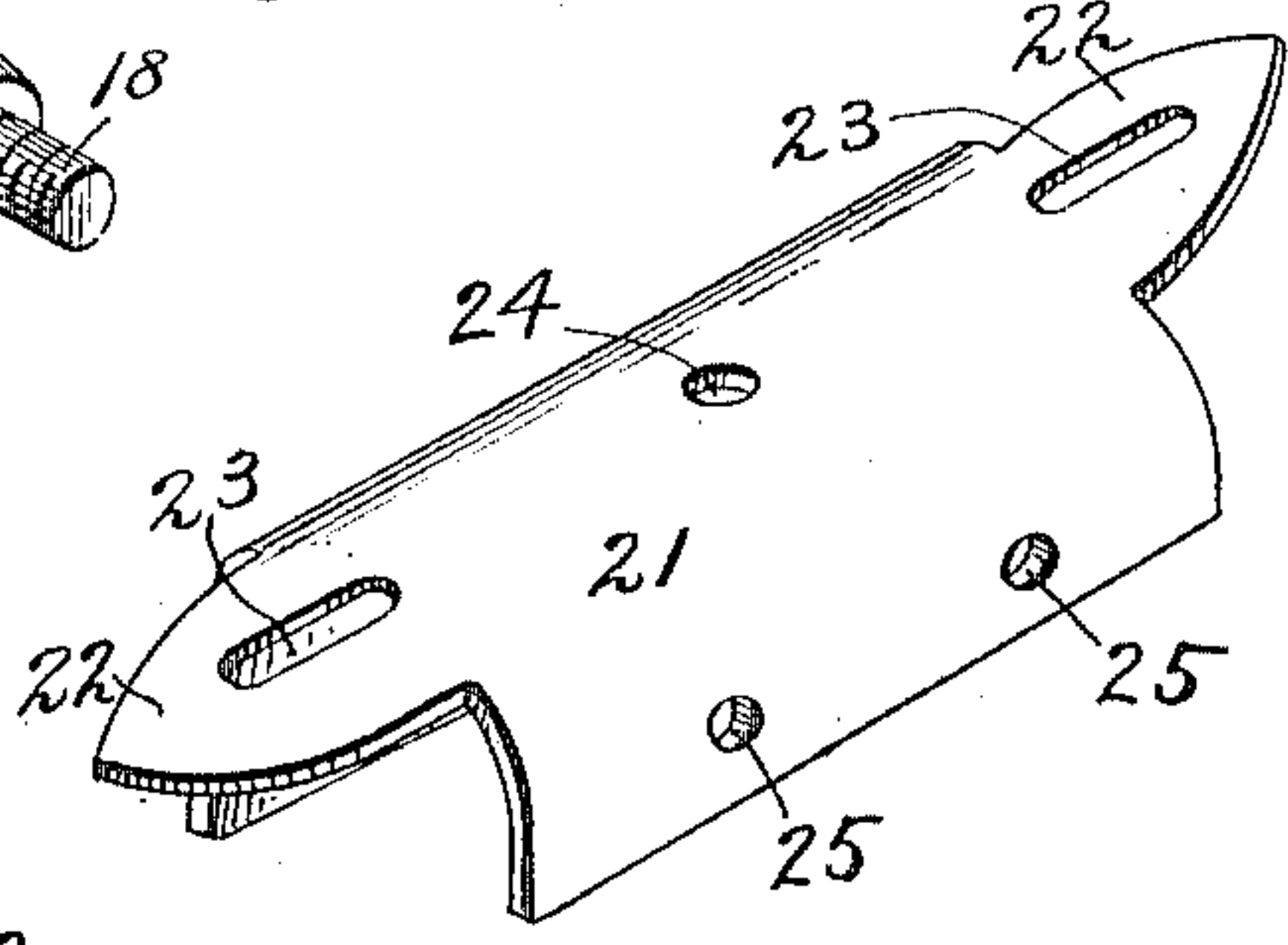
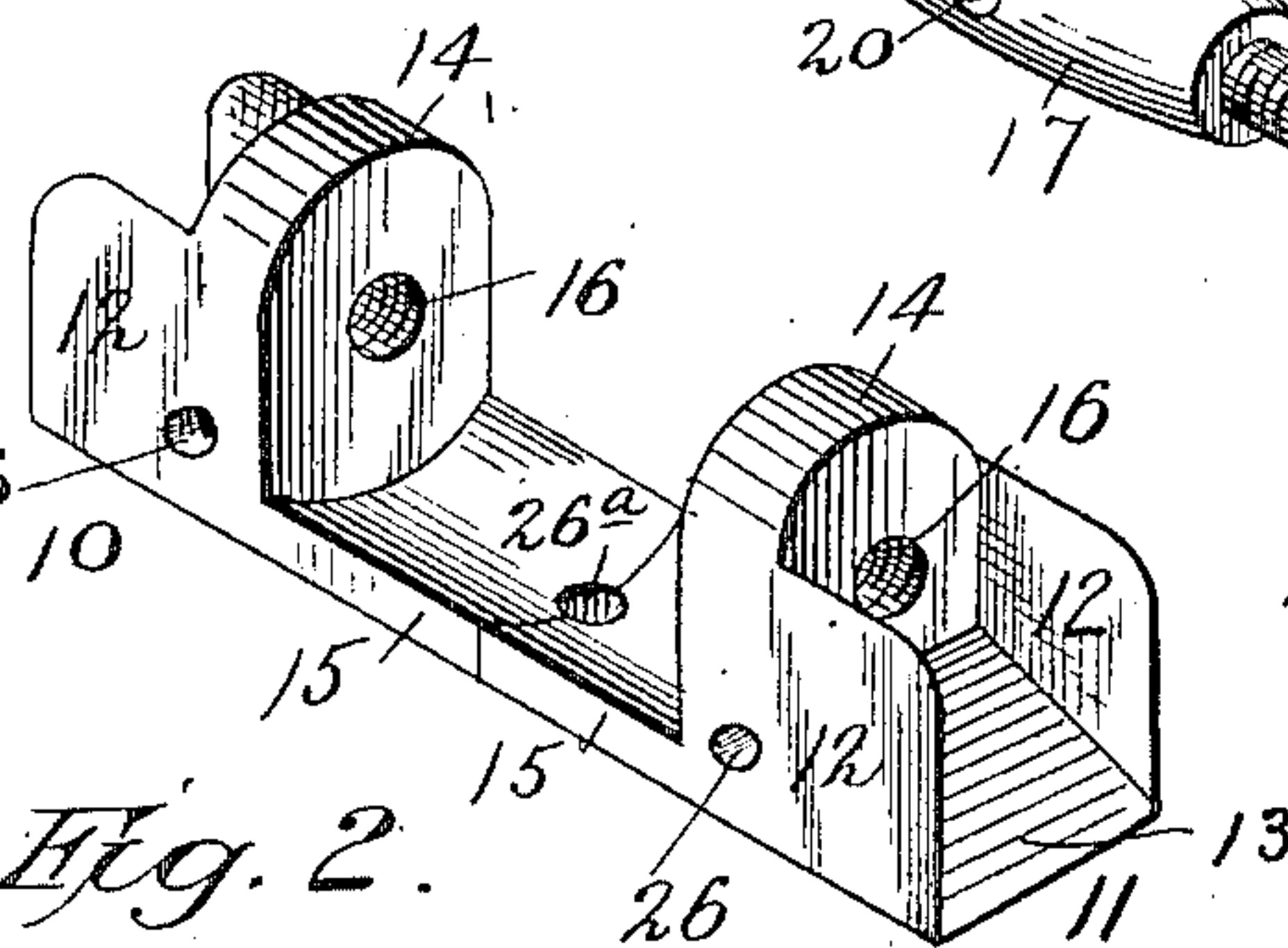


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

FRANCIS A. TERPENING, OF ALBIA, KANSAS.

TIRE-TIGHTENER.

SPECIFICATION forming part of Letters Patent No. 661,388, dated November 6, 1900.

Application filed May 8, 1900. Serial No. 15,887. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS A. TERPENING, a citizen of the United States, residing at Albia, in the county of Washington and State of Kansas, have invented new and useful Improvements in Tire-Tighteners, of which the following is a specification.

My invention relates to tire-tighteners; and the object of the same is to provide a device for this purpose which shall be simple and efficient in operation, of few parts, and which may be readily operated to tighten a tire without removing it from the fellyes or rim.

I attain this object by means of the construction shown in the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side view of a tire-tightener made in accordance with my invention with the cover-plate removed. Fig. 2 is a perspective view of the pillow-caps. Fig. 3 is a perspective view of the turnbuckle. Fig. 4 is a detail perspective of the connecting-plate to cover the felly-joint. Fig. 5 is a perspective view of one end of one of the fellyes. Fig. 6 is a longitudinal section of my invention.

Like numerals of reference designate like parts wherever they occur in the different views.

In said drawings, 1 is the wheel; 3, the spokes; 4 4^a, the fellyes, and 4^b the tire. The two ends of the contiguous fellyes are reduced in size to form the shoulders 5 and 6 and the inclined portion 7. A V-shaped depression 8 is also formed in the under surface of the end of said fellyes, and a hole 9 extends through said fellyes within the depressed portion 8.

The pillow-cap 10 forms a seat 11 at each end for the reduced end of a felly 4^a. This cap consists of the side walls 12, the inclined bottom wall 13, the partition 14, and the flanges 15. The partition 14 is provided with a threaded perforation 16. Turnbuckle 17 is provided with oppositely-screw-threaded ends 18 and a central body portion 19, having holes 20 passing entirely through the same to serve as engaging-points for a turning-rod to adjust

the buckle. The oppositely-screw-threaded ends 18 of the turnbuckle are fitted in the perforations 16 in the partition 14. The sheet-metal cover-plate 21 is provided with V-shaped ends 22 to fit the depressions 8 and has slots 23, a hole 24, and apertures 25. Each pillow-cap 10 has a transverse aperture 26 therein, and a semicircular recess 26^a is formed in the end of each flange 15.

The operation of my device will be readily understood. When the turnbuckle is rotated, it separates the fellyes 4 4^a and tightens the tire 4^b. The slots 23 in the plate 21 permit the plate to move as the buckle is turned, and transverse bolts 27 are passed through the apertures 25. A bolt 28 passes through the turnbuckle, and its ends are seated in the holes 24 and 26^a.

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

1. In a tire-tightener, a pair of fellyes having reduced ends, a pillow-cap for each of said ends, said pillow-cap consisting of the side walls, the inclined bottom, a perforated partition, and a projecting flange, a turnbuckle having oppositely-threaded ends fitted in the perforations in the partitions of the pillow-cap, and a cover-plate for concealing the joints, said plate having slots, and perforations, substantially as described.

2. The herein-described tire-tightener, consisting of the pillow-caps having side walls, inclined bottoms, perforated partitions, and recessed flanges, fellyes having reduced ends fitting the pillow-caps, a turnbuckle having oppositely-screw-threaded ends fitting the perforations in the partitions, a cover-plate fitting the felly ends and provided with slots and perforations, bolts passing through the slots and perforations, the felly ends having apertures therein, for the purpose set forth.

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

FRANCIS A. TERPENING.

Witnesses:

AUGUST SOLLER,
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