

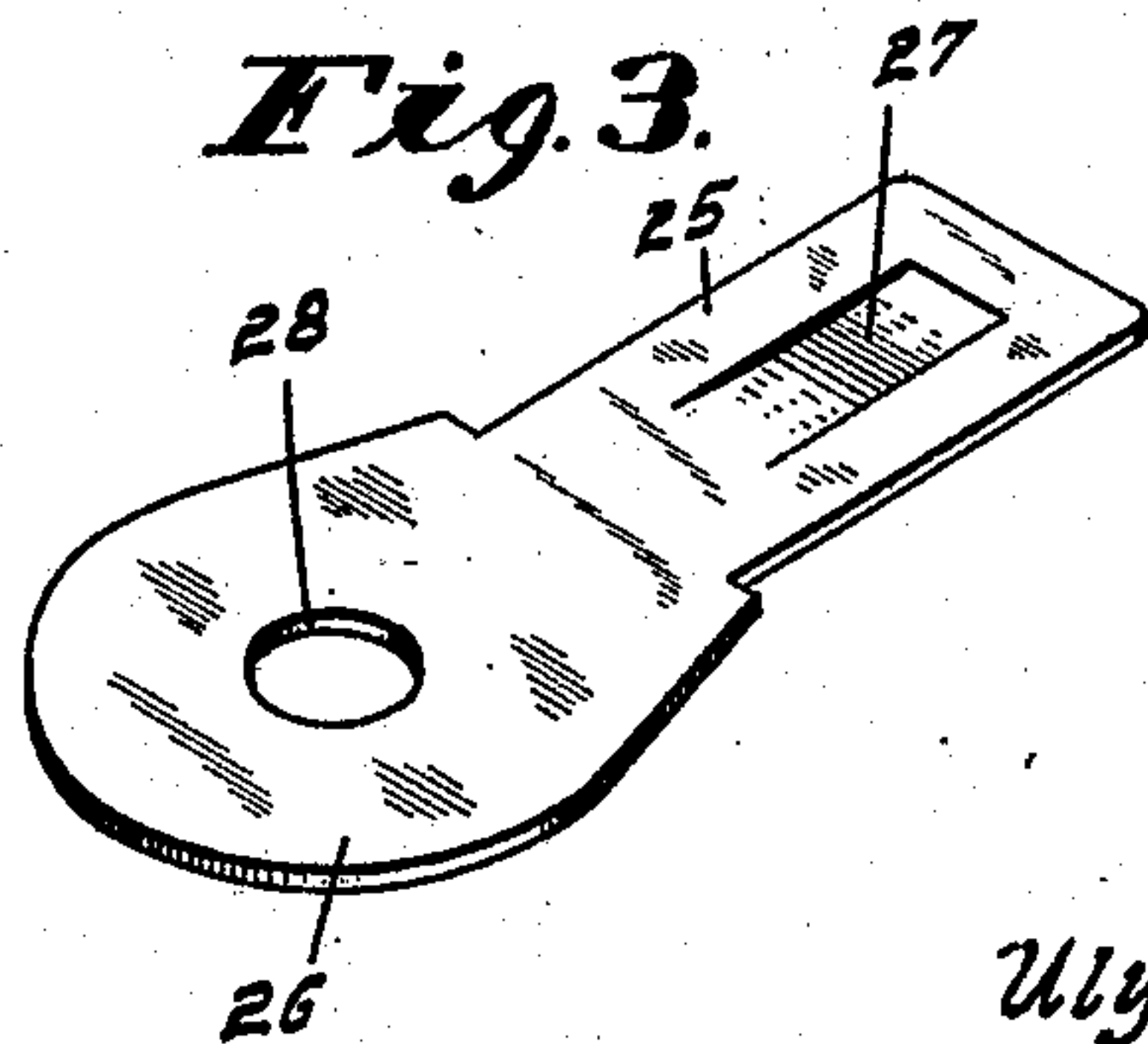
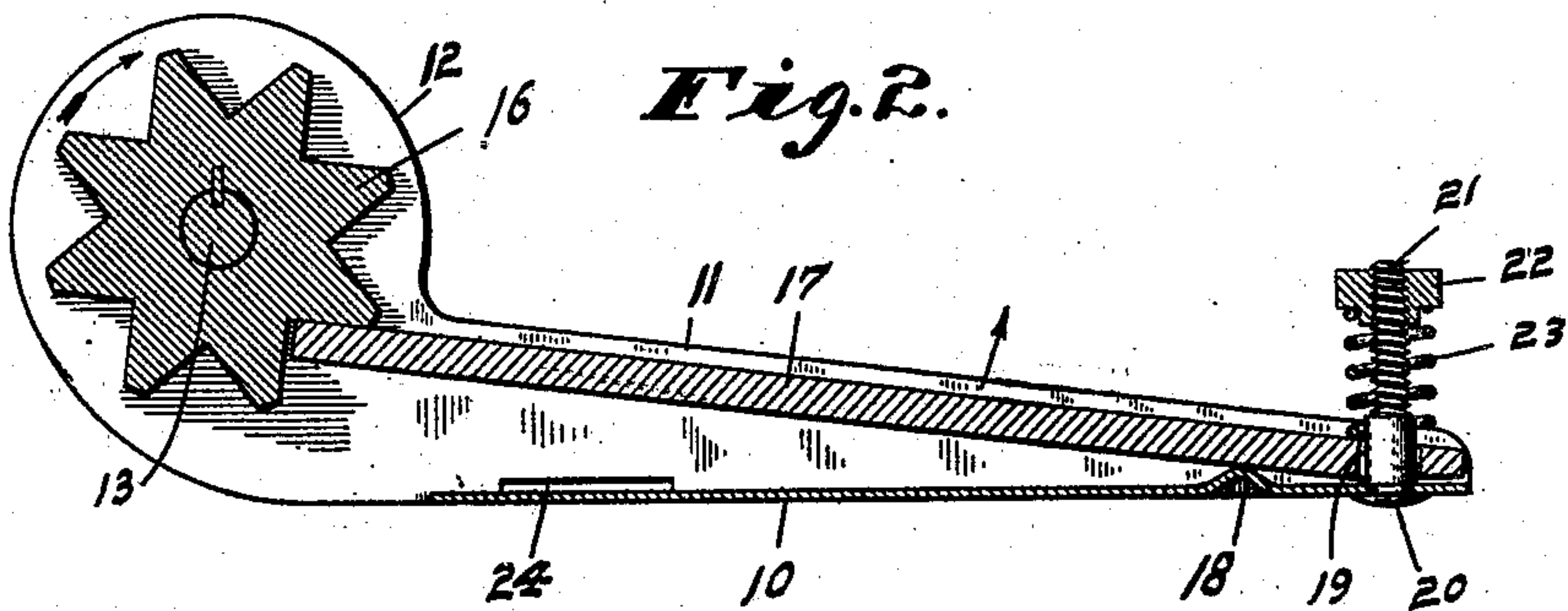
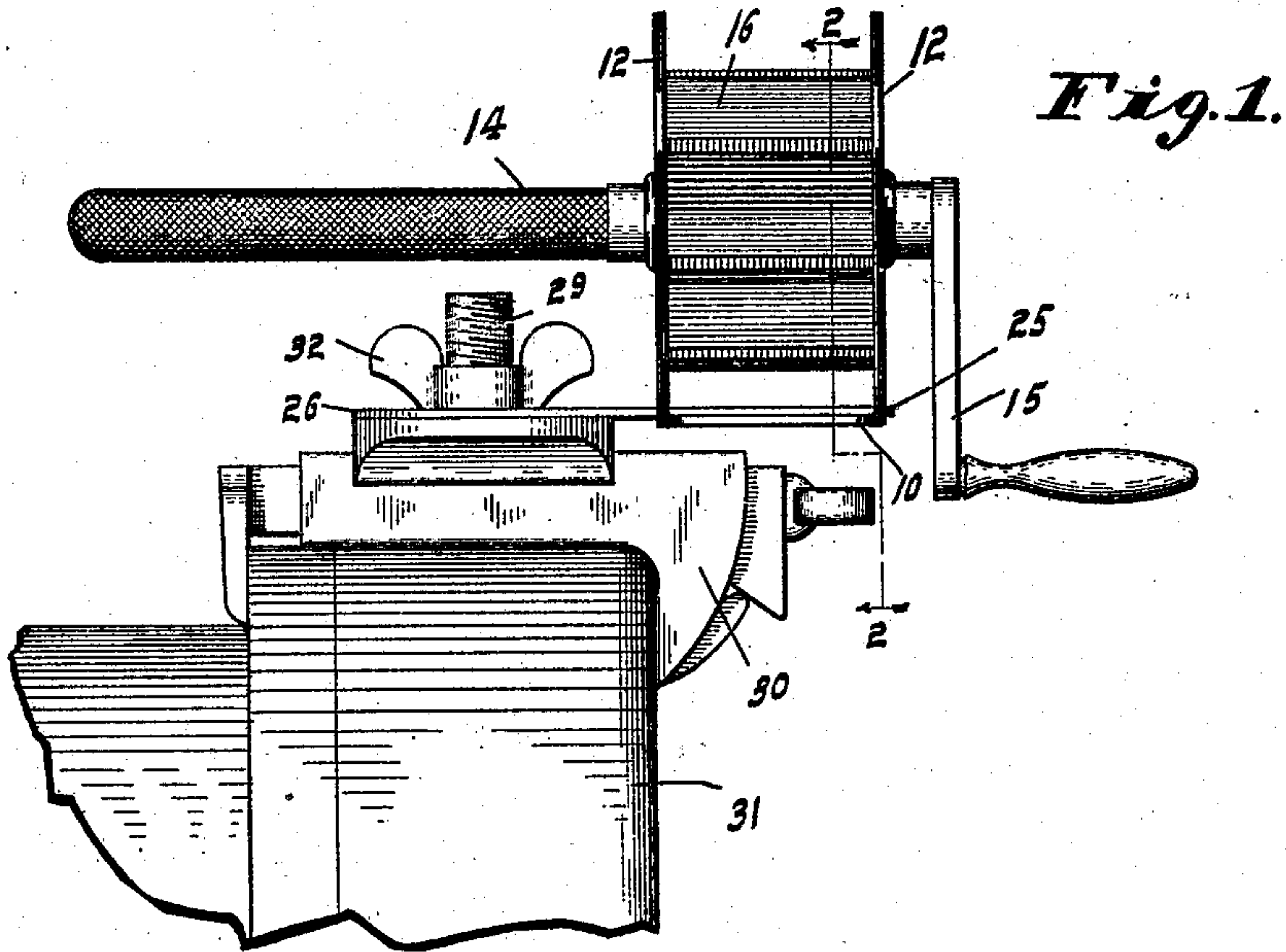
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RATTLE.

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923,672.

Patented June 1, 1909.



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UNITED STATES PATENT OFFICE.

ULYSSES G. LEEDY AND CHARLES B. WANAMAKER, OF INDIANAPOLIS, INDIANA, ASSIGNORS
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RATTLE.

No. 923,672.

Specification of Letters Patent.

Patented June 1, 1909.

Application filed June 30, 1908. Serial No. 441,226.

To all whom it may concern:

Be it known that we, ULYSSES G. LEEDY and CHARLES B. WANAMAKER, citizens of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Rattles, of which the following is a specification.

In orchestras, especially those of theaters the use of a rattle is often necessary and it is often desirable that the sounding of the rattle be controllable further than a mere production of a rapid succession of sounds.

Heretofore, so far as we are aware, no satisfactory rattle has been produced by means of which the sounding thereof could be accurately controlled, and the object of our present invention is to produce a satisfactory rattle of this type which may be used either in the ordinary manner to produce a rapid succession of sounds or may be used in the accurate production of sounds separated into any desired series.

The accompanying drawings illustrate our invention.

Figure 1 is an end elevation of our improved rattle attached to a drum by means of any suitable clamp, preferably of the form illustrated, which clamp forms the subject-matter of our Patent No. 849,517; Fig. 2 a section of the rattle only, on line 2 2 of Fig. 1; Fig. 3 a perspective detail of a convenient clip by means of which the rattle may be attached to the clamp referred to.

In the drawings, 10 indicates a metal plate the sides 11 of which are bent upwardly parallel with each other and provided at one end with enlarged substantially circular ears 12 in which is journaled a shaft 13, the shaft projecting through the ears 12 and being provided at one end with a knurled end or extension 14 and at the other end with a crank 15. Secured to shaft 13, between the ears 12 12, so as to rotate with the shaft, is a star wheel 16 preferably formed of hard wood. Mounted between the sides 11 and having its free end extended into the path of movement of the projecting fingers of the star wheel 16, is a rattle tongue 17 which, near its rear end rests upon a fulcrum 18 which is conveniently struck up from the plate 10. To the rear of the fulcrum 18, tongue 17 is perforated at 19 and passing up through said perforation is a pin 20 firmly secured to plate 10 and provided at its upper

end with a threaded portion 21 adapted to receive an adjusting head 22. A spring 23 is placed beneath head 22 in position to engage the rear end of the tongue 17, the arrangement being such that by adjusting head 22, the force of the blow of the tongue 17 upon the star wheel 16 may be nicely adjusted, such adjustment not materially affecting the tone of the rattle but changing its intensity. Tongue 17 is of a width substantially equal to the distance between the sides 11 11 so that said sides hold the tongue in proper position transversely.

In operation, a continuous succession of substantially uniformly-spaced sounds may be produced by grasping the stem 14 and, by a slight swinging motion, causing the body 10, with the tongue 17, to rotate about shaft 13 in the direction indicated by the arrow in Fig. 2. With this method of operation, however, it is practically impossible to accurately control the production of sounds and when such control is desirable the operator may grasp the body 10 in one hand and turn star wheel 16 in the direction indicated by the arrow in Fig. 2 by means of crank 15 so that, by a little practice, any desired spacing and grouping of sounds may be obtained. It is sometimes inconvenient for the operator to be compelled to use both hands for such actuation of the instrument and for that reason we perforate each side 11, immediately above plate 10, as at 24, to receive a tongue 25 forming a part of a clip 26 which may be secured to any suitable support, the tongue 25 being provided with a spring portion 27, conveniently struck up from the body of the tongue, thus providing a friction member adapted to engage the main plate 10 and hold the rattle firmly in position. In practice the most convenient place to support the instrument is upon either the tenor drum or bass drum and for that purpose clip 26 may be provided with a perforation 28 adapted to receive the pin 29 of the clamp 30 which is secured to the drum head ring 31, the clip being secured to pin 20 by means of the suitable butterfly nut 32.

We claim as our invention:—

1. A rattle comprising a main plate with upturned sides, a star wheel journaled between said sides, a tongue mounted between the sides, a transverse fulcrum for said tongue near its outer end, said fulcrum formed by a struck-up portion of the main

plate, a spring for urging the tongue into engagement with the star wheel, and means by which the star wheel may be rotated.

2. A rattle comprising a main plate with
5 upturned sides, a star wheel journaled between said sides, a tongue mounted between the sides, a transverse fulcrum for said tongue near its outer end, a pin carried by the main plate and extended through the
10 tongue on the far side of the fulcrum and having a threaded end, a nut threaded on said end, a spring arranged between said nut and tongue, and means by which the star wheel may be rotated.

15 3. A rattle comprising a main plate with upturned sides, a star wheel journaled between said sides, a tongue mounted between the sides, a transverse fulcrum for said

tongue near its outer end, said fulcrum formed by a struck-up portion of the main 20 plate, a pin carried by the main plate and extended through the tongue on the far side of the fulcrum and having a threaded end, a nut threaded on said end, a spring arranged between said nut and tongue, and means by 25 which the star wheel may be rotated.

In witness whereof, we have hereunto set our hands and seals at Indianapolis, Indiana, this fifteenth day of June, A. D. one thousand nine hundred and eight.

ULYSSES G. LEEDY. [L. S.]
CHARLES B. WANAMAKER. [L. S.]

Witnesses:

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