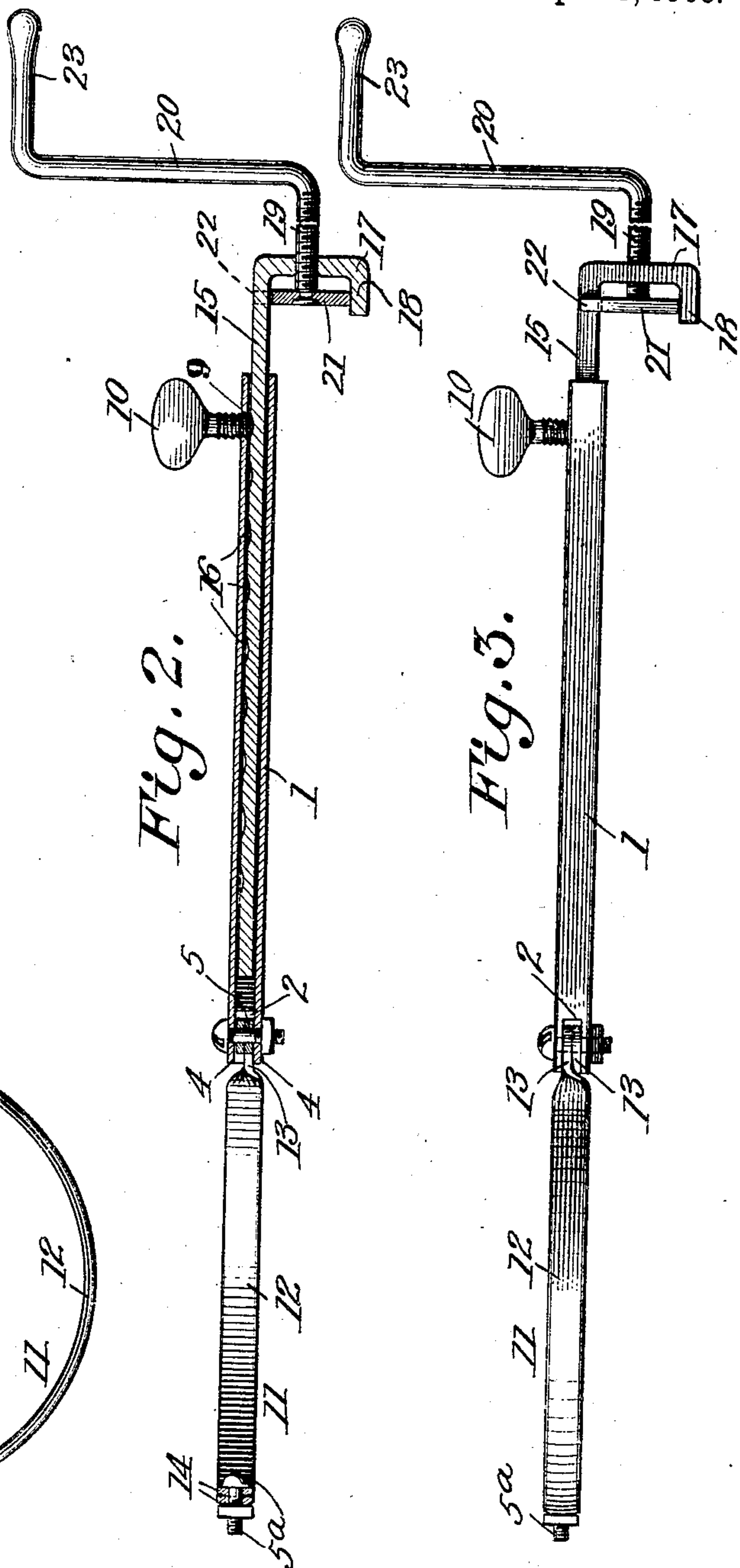
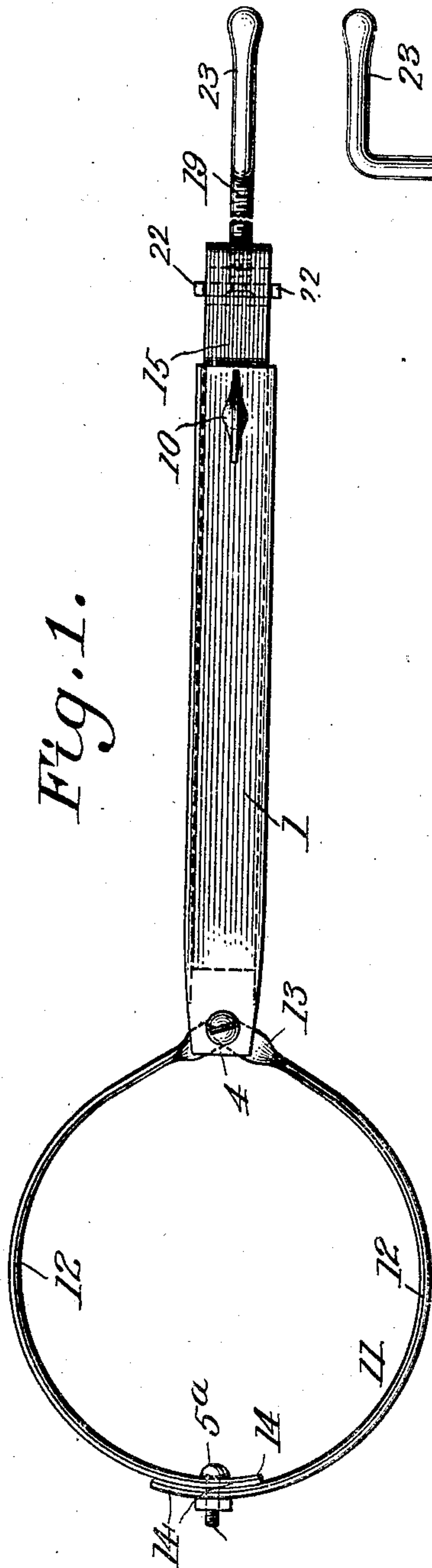


A. MAGNETT & J. M. CLEMENTSON.
RIM COMPRESSOR.

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898,585.

Patented Sept. 15, 1908.



Witnesses:

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ADAM MAGNETT AND JOE M. CLEMENTSON, OF WESTFIELD, IOWA.

RIM-COMPRESSOR.

No. 898,585.

Specification of Letters Patent.

Patented Sept. 15, 1908.

Application filed December 19, 1907. Serial No. 407,256.

To all whom it may concern:

Be it known that we, ADAM MAGNETT and JOE M. CLEMENTSON, citizens of the United States, residing at Westfield, in the county of Plymouth and State of Iowa, have invented a new and useful Machine or Device for Setting Rims or Fellies on Wheels, and our invention is a machine or device for compressing rims.

This invention relates to improvements in rim compressors, and has for its object the provision of means for facilitating the setting of rims or fellies on vehicle wheels.

Another object of the invention is the construction of a peculiar device, comprising a minimum number of parts, and which is not only efficient, but also durable and comparatively inexpensive to manufacture.

With these and other objects in view, the invention consists of certain novel constructions, combinations, and arrangements of parts, as will be hereinafter fully described and claimed.

In the drawings: Figure 1 is a top plan view of a device constructed in accordance with the present invention. Fig. 2 is a longitudinal, sectional view of the structure depicted in Fig. 1. Fig. 3 is a view, in side elevation, of the device depicted in Fig. 1.

Referring to the drawings by numerals, 1 designates an elongated, hollow casing, which is provided with a bifurcated end 2, having horizontal, flat, parallel portions 4; the parallel portions 4 are provided with registering apertures, through which a bolt 5 extends. Contiguous to the opposite end of casing 1, and formed in the upper portion thereof, is a threaded aperture 9, into which aperture is threaded a thumb or set-screw 10. A sectional band 11 is attached to casing 1, by means of a bolt 5, as follows: The band 11 comprises similarly-constructed sections 12, each of which is provided, at its inner end, with a horizontally-disposed, flat lip 13, overlapping the similar lip on the other section, and said lips 13 are provided with registering apertures, which register with the apertures in the parallel extensions or portions 4, for pivotally securing the sections of the band in the end of casing 1. The outer ends 14 of sections 12 are positioned parallel and overlap, Fig. 1, and these overlapping ends 14, are normally clamped or fastened together, by means of a bolt 5^a. It is to be noted that the outer ends 14 are not bent at an angle to the body of the sections

12 and permit free adjustment of the sections around a hub prior to the fastening of the same together by the fastening means 5^a. A horizontal, L-shaped bar 15 has its body portion normally positioned in the hollow casing 1, and the upper face of the body portion of said L-shaped bar is provided with sockets or pockets 16, for receiving the lower end of the set-screw or bolt 10, Fig. 2, for positively securing the bar against displacement within the casing after the same has been adjusted to the desired position.

The vertical portion 17 of the L-shaped bar terminates at its lower end, in a horizontal portion 18. The threaded portion 19 of the crank arm 20 is threaded through an aperture in the vertical portion 17, and is rotatably connected to a vertical clamp-plate 21, that is slidably mounted between the body portion of the bar 15 and the lower or horizontal portion 18; the clamp-plate 21 is provided with a pair of lugs or extensions 22, positioned at opposite edges of the body of the bar 15. The crank-bar is provided with a grip-portion 23, whereby the operator can grasp the handle and rotate the same for adjusting the clamp-plate 20 longitudinally of the body of the bar 15.

The operation of the device or machine is as follows: When it is desired to adjust the band upon a hub, the fastening means 5^a is detached and the sections swung apart and the device adjusted upon the hub and then said fastening means placed in position, as shown in Figs. 1 to 3. The horizontal L-shaped bar 15 is then inserted or adjusted upon the casing 1, until the outer face of the clamp-plate 21 rests against the rim or felly to be set on the spokes which are inserted in the hub of a wheel of an ordinary type. The set-screw is then tightened and the lower end seated in a socket or pocket 16, and thereby securely holds the bar in an adjusted position. The crank-arm 20 is then rotated, forcing the plate 21 forward and thus forcing the rim or felly on the spoke. After the rim or felly is fully fitted, the spoke is wedged or otherwise fastened or secured in the rim or felly and the machine is then adjusted for another spoke.

What we claim is:

1. A device of the character described, comprising a hollow elongated casing provided, at one end, with a bifurcated portion, embodying a pair of flat, parallel extensions, said extensions provided with registering ap-

ertures, a band engaging said casing, said band comprising a pair of curved sections, each of said sections provided at its inner end with an integral, horizontal, apertured lip disposed at right-angles to the body portion of the section, the lips of said band overlapping and being positioned between the parallel extensions of the hollow casing and having their apertures registering with the apertures of said extensions, detachable fastening means extending through the apertures of the extension and through the apertures of said lips for pivotally securing the sections in the bifurcated portion of the casing, the outer ends of the section overlapping, means fastening said overlapping ends together, an L-shaped bar having its body portion positioned in the casing, said body portion provided upon one side with pockets, a set-screw threaded through one side of the casing and normally positioned at its inner end, in a pocket, and clamping means carried by the outer end of said bar.

2. A device for compressing rims, comprising an elongated hollow casing provided with a bifurcated end, semi-circular sections having inner, parallel portions, said parallel portions overlapping and positioned in the bifurcated end of said casing, fastening means pivotally securing the parallel portions within said bifurcated portion, detachable means securing the outer ends of said sections together, said sections comprising a clamping-band, a bar slidably mounted in said casing, means carried by said casing for locking said bar in an adjusted position therein, and clamping means carried by the outer end of said bar.

3. A device of the class described, comprising a hollow, elongated casing, said casing provided with a bifurcated end and open at its other end, expansible clamping means pivotally secured in the bifurcated end of said casing, a bar slidably mounted in said casing and having a portion projecting beyond the open end thereof, means for locking said bar in an adjusted position in said cas-

ing, said bar provided with clamping means at its outer end.

4. A device of the class described, comprising an elongated, hollow casing provided at one end with a pair of flat, parallel extensions, producing a bifurcated portion and the opposite end of the casing being open, said extensions provided with registering apertures, a sectional band engaging said casing, each section of said band comprising a curved body provided near its outer end with an aperture and at its inner end with an integral horizontal apertured-lip, disposed at right-angles to the central and outer portion of the body, and each lip positioned between the parallel extensions and overlapping the other lip between said extensions, fastening means extending through the apertures of the lips and pivotally securing said sections upon the bifurcated end of the casing, whereby said sections can be quickly swung apart for permitting the outer ends of the sections to be quickly positioned over a hub, detachable fastening means extending through the apertures formed near the outer ends of the curved sections for securing the outer ends in their overlapping fastened position, a flat bar slidably mounted in the open end of the casing and said bar being adapted to engage, at its inner end, the lips of the sections of the band, limiting its inward sliding movement, the lower face of said bar adapted to engage one side of one of the inner faces of the casing, and its upper face provided with a plurality of pockets, a set-screw threaded through the upper portion of the casing and adapted to be positioned in one of the pockets for clamping the bar against the lower face of the casing and away from the upper portion of said casing, and clamping means carried by the outer end of said bar.

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Witnesses:

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