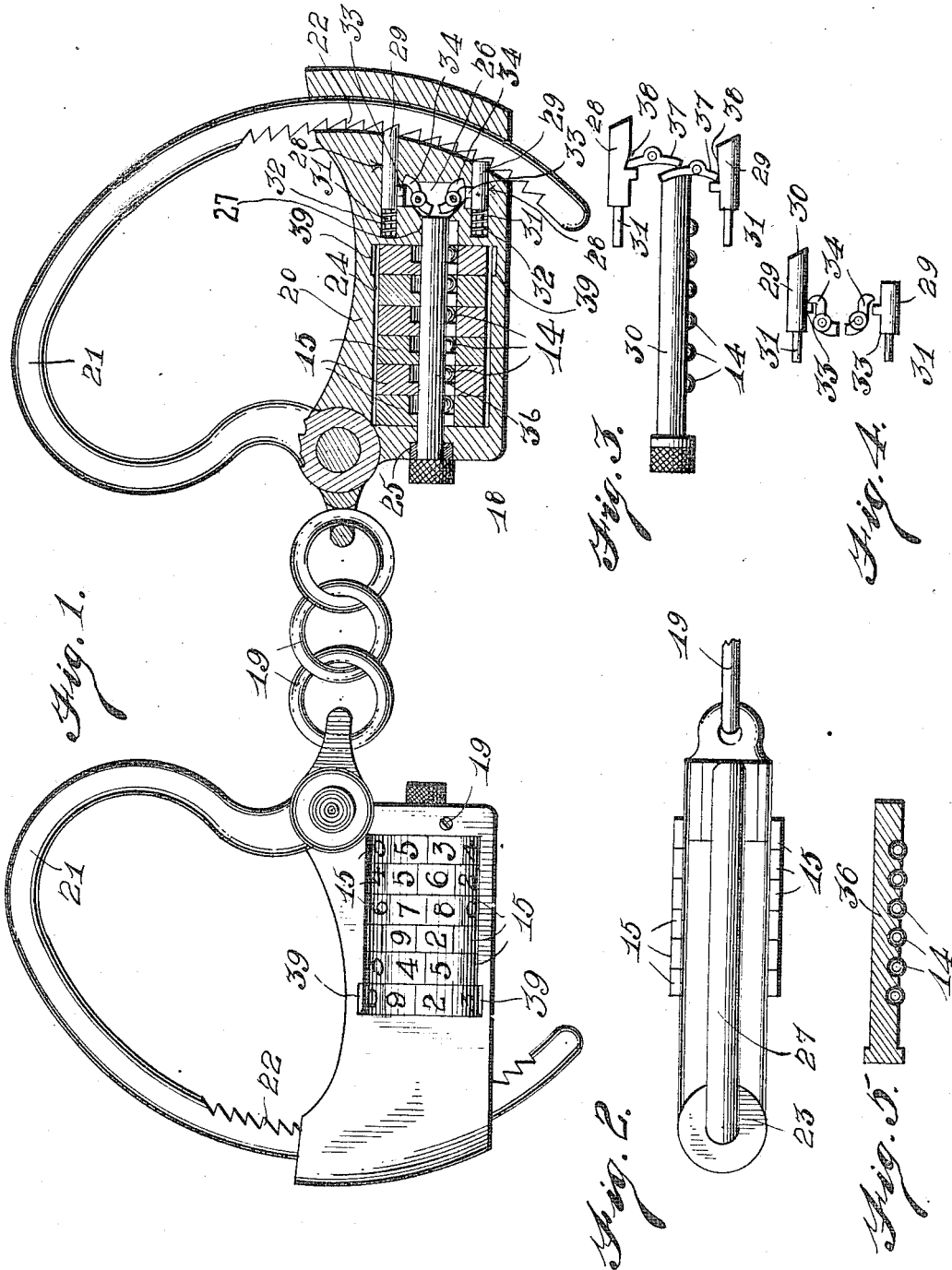


J. LOREY.
HANDCUFF.

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1,038,492.

Patented Sept. 10, 1912.



WITNESSES

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JOSEPH LOREY, OF SAN QUENTIN, CALIFORNIA, ASSIGNOR OF ONE-HALF TO LEONARD MORDAUNT, OF LOS ANGELES, CALIFORNIA.

HANDCUFF.

1,038,492.

Specification of Letters Patent.

Patented Sept. 10, 1912.

Original application filed June 7, 1910, Serial No. 565,482. Divided and this application filed June 4, 1912. Serial No. 701,616.

To all whom it may concern:

Be it known that I, JOSEPH LOREY, a citizen of the United States, residing at San Quentin, in the county of Marin and State of California, have invented certain new and useful Improvements in Handcuffs, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to hand cuffs and has special reference to a hand cuff provided with a combination lock especially adapted therefor, the same forming a division of my application filed June 7th, 1910, and bearing the Serial No. 565,482.

The principal object of the invention is to provide a novel form of hand cuff having improved means for locking one member of the cuff to the other.

Another object of the invention is to provide an improved releasing means for such hand cuffs.

With the above and other objects in view, this invention consists in general of certain novel constructions, combinations, and arrangements of parts as will be hereinafter fully described, illustrated in the accompanying drawings, and specifically claimed.

In the accompanying drawings, like characters of reference indicate like parts in the several views, and Figure 1 is a side elevation of a pair of hand cuffs partly in section showing the general construction of the device. Fig. 2 is an edge view thereof. Fig. 3 is a detail view of the locking arrangement with the combination removed therefrom. Fig. 4 is a view of the locking pins with the releasing lugs in a slightly modified form. Fig. 5 is a section through the locking pins.

In carrying out the invention a pair of hand cuffs are provided, said handcuffs comprising two duplicate sections which are connected by the links 19. Each section is provided with a frame 20 having a shackle 21 pivotally connected to one end thereof, said shackle having its free end portion provided with teeth 22 and adapted to be passed through the curved slot 23 that extends through the enlarged outer end of said frame. Each frame is provided with a cut-away portion 24 with which a counterbored

transverse opening 25 formed through the inner end of the frame communicates.

The outer end portion of the frames are provided with a recess 26 which has a slot communication 27 with the cut-away portion 24. The ends of the recess 26 communicate with guide slots 28 which extend to the curved slot 23. Two guide slots 28 are employed and a locking bolt 29 is slidable in each slot, one end of said bolt being beveled as indicated at 30 and adapted for locking engagement with the shackle 21. The inner end 31 of said bolt is reduced and has a spring 32 coiled thereon, said springs automatically sliding said bolts to engagement with the shackles. Each bolt 29 is provided with a laterally projecting lug 33 that extends into the recess 26. Dogs 34 are pivotally mounted in the recess 26, said dogs being adapted to be rocked by the operating pin 36 to engage lugs 33 and thereby release the bolts 29 from the shackles 21 against the tension of springs 32. Said pin 36 is slidably supported in the opening 25 and slot 27 and is equipped with the anti-friction rollers 14 and is locked or unlocked by the tumblers 15. An abutment stop 18 in the form of a removable screw is employed for normally limiting the sliding movement of the pin 36 in one direction and may be readily removed to permit the combination to be changed.

The dogs 34, are arranged in spaced relation and their inner ends are in the path of movement of the pin 36 so that said dogs are rocked by the said pin contacting with them. The ends of said dogs which engage the lugs of the bolts 29 are in the form of hooks.

In Fig. 5 a modified type of dog is shown, the dogs being designated by the numeral 37 and are arranged so that their inner ends overlap and their outer ends engage the lugs of the bolts 29. In this form of the invention the dogs are curved on an arc of a circle and the lug engaging ends are beveled. The bolts 29 are provided with a guideway 38 which guides the beveled ends of the dogs to the lugs.

The inner end of the cut-away portion 24 of each frame 20 is provided with an enlarged recess 39, through which the rollers

15 are passed to be placed in position on the bolts 36, or to be removed from the frame.

There has thus been provided a simple and efficient device of the kind described, 5 and for the purpose specified.

It is obvious that many minor changes may be made in the form and construction of the invention without departing from the material principles thereof and it is 10 therefore not wished to confine the invention to the exact form herein shown and described, but it is wished to include all such as properly come within the scope of the appended claims.

15 Having thus described the invention, what is claimed as new, is:—

1. A hand-cuff comprising a frame, a shackle therefor, means for locking said shackle to said frame, a pin slidable in said 20 frame for releasing said shackle locking means, combination tumblers carried by said pin, and anti-friction rollers carried by said pin and adapted to be engaged by said tumblers to prevent said pin releasing said 25 shackle-locking means.

2. A hand-cuff comprising a frame, a

shackle therefor, bolts for automatically locking said shackle to said frame, a pin for releasing said bolts, anti-friction rollers 30 carried by said pin, and rotatable tumblers adapted to engage said rollers to prevent said pin releasing said bolts.

3. A hand-cuff comprising a frame, a shackle therefor, automatically acting bolts for locking said shackle to the frame, dogs 35 carried by said frame, a pin slidably mounted in said frame for actuating said dogs to release said bolts, and combination means controlling the operation of said pin.

4. A hand-cuff comprising a frame, a 40 shackle therefor, bolts for automatically locking said shackles to said frame, dogs pivotally mounted in said frame, means for causing said dogs to release said bolts, and combination tumblers controlling the oper- 45 ation of said means.

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

JOSEPH LOREY.

Witnesses:

E. O. ELLIS,

J. H. MURRAY.