

(No Model.)

C. L. HILDRETH.

ACTUATING MECHANISM FOR DOFFER COMBS OF CARDING ENGINES.

No. 492,533.

Patented Feb. 28, 1893.

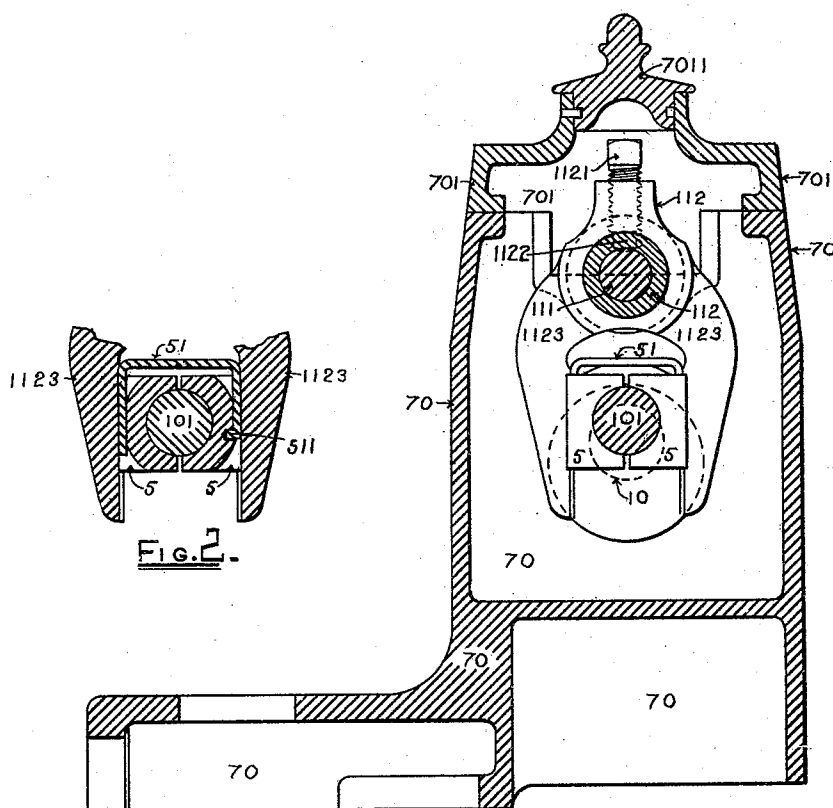


Fig. 1.

WITNESSES.

Sam'l G. Stephens.
Oscar F. Hill.

INVENTOR.

C. L. Hildreth

UNITED STATES PATENT OFFICE.

CHARLES L. HILDRETH, OF LOWELL, MASSACHUSETTS, ASSIGNOR TO THE
LOWELL MACHINE SHOP, OF SAME PLACE.

ACTUATING MECHANISM FOR DOFFER-COMBS OF CARDING-ENGINES.

SPECIFICATION forming part of Letters Patent No. 492,533, dated February 28, 1893.

Application filed December 2, 1892. Serial No. 453,874. (No model.)

To all whom it may concern:

Be it known that I, CHARLES L. HILDRETH, a citizen of the United States, residing at Lowell, in the county of Middlesex and State of Massachusetts, have invented a certain new and useful Improvement in Actuating Mechanism for Doffer-Combs of Carding-Engines, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to the actuating mechanism for the doffer-combs of carding engines, and to similar mechanisms in which are employed an actuating crank-shaft, a split-bearing which is fitted to the wrist of the said crank-shaft, and an oscillating arm or the like part having jaws within which the split-bearing slides.

My invention has for its object to facilitate the operation of assembling the parts aforesaid.

It consists in a spring-clasp by means of which the halves of the split-bearing, after they have been fitted upon the wrist, are secured in position thereon while the oscillating arm or oscillator is being put in place.

The invention will first be fully explained with reference to the accompanying drawings, and then will be more particularly pointed out and distinctly defined in the claims at the close of this specification.

In the drawings, Figure 1 is a view in vertical section of sufficient of the actuating mechanism for the doffer-comb of a carding engine to illustrate the nature and application of my invention. Fig. 2 is a view in detail, also in vertical section.

At 70 is shown the comb-box, which is intended to be secured upon the framing of the carding-engine in position adjacent to the doffer.

At 701 is shown the cover of the comb-box, at 7011 is shown the plug which is fitted to the hole that is formed in the said cover.

At 111 is shown the comb-shaft.

At 112 is shown the oscillator, which is slipped upon the comb-shaft, and is secured in the desired position thereon by means of the screw 1121, a saddle 1122 being interposed between the point of the screw and the shaft to prevent the wearing of the said shaft by the screw.

At 1123, 1123 are shown the jaws of the oscillator. Between the said jaws slides the split-bearing 5, 5, the halves of which are fitted upon the wrist 101 of the crank-shaft 10.

In practice, it is found difficult and inconvenient to hold the halves of the split-bearing in position upon the wrist 101 while the parts are being assembled and the oscillator is being put in place. I therefore have provided the spring-clasp 51, which consists of a piece of spring-wire, bent in substantially U-shape so as to enable it to fit around three sides of the split-bearing, one of the arms of the said clasp having its end bent to form the hook 511. The arms of the clasp fit in grooves formed in the outer lateral surfaces of the split-bearing, and the clasp is secured from accidental displacement by having the hook 511 snapped into a hole that is drilled into one of the halves of the split-bearing for its reception, all as is clearly shown in Fig. 2.

The clasp is permitted to remain applied as shown in the drawings until the mechanism is disorganized.

I claim as my invention—

1. The combination with an actuating crank-shaft, a split-bearing applied to the wrist thereof, and an oscillator within the jaws of which the split-bearing slides, of a spring-clasp whereby the halves of the split-bearing are held in position on the said wrist while the parts are being assembled, substantially as described.

2. The combination with an actuating crank-shaft, a split-bearing applied to the wrist thereof and having the outer lateral surfaces of its halves formed with grooves, and an oscillator within the jaws of which the split-bearing slides, of the U-shaped spring-clasp having its arms fitted to the said grooves and the hooked free end of one of the said arms entered into a hole in one of the said halves, substantially as described.

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

CHAS. L. HILDRETH.

Witnesses:

SAML. G. STEPHENS,
OSCAR F. HILL.