

(No Model.)

J. PARKIN.

MECHANISM FOR ACTUATING THE DABBING BRUSHES OF COMBING
MACHINES.

No. 460,654.

Patented Oct. 6, 1891.

Fig. 1.

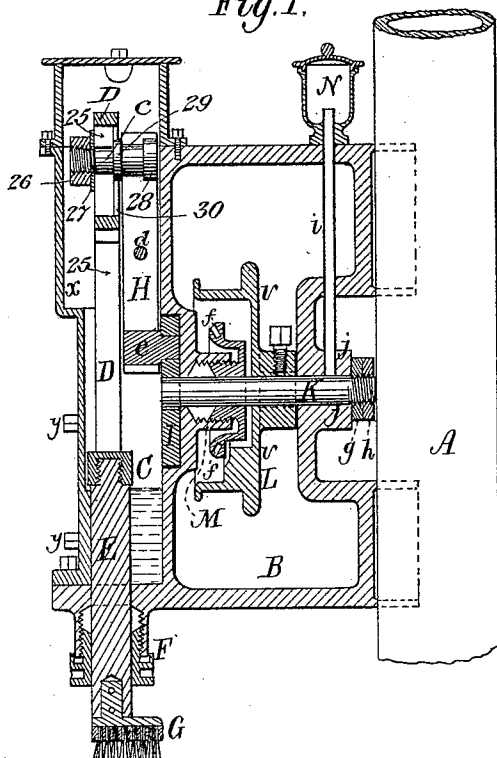


Fig. 2.

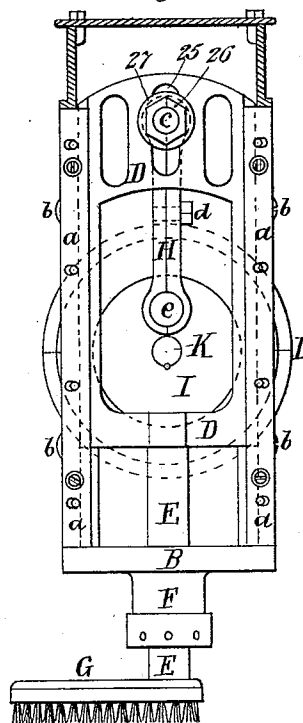


Fig. 3.

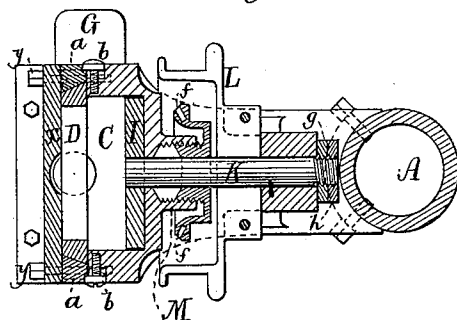
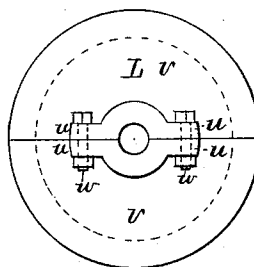


Fig. 4.



Witnesses.

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UNITED STATES PATENT OFFICE.

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MECHANISM FOR ACTUATING THE DABBING-BRUSHES OF COMBING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 460,654, dated October 6, 1891.

Application filed August 29, 1890. Serial No. 363,398. (No model.)

To all whom it may concern:

Be it known that I, JAMES PARKIN, a citizen of Great Britain, residing at Lynn, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Mechanism for Actuating the Dabbing-Brushes of Combing-Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

Figure 1 is a longitudinal, median, and vertical section of mechanism of my invention for operating the dabbing-brushes of combing-machines. Fig. 2 is a front view of the same with the cover to the chamber of the bracket removed. Fig. 3 is a horizontal section of said mechanism, taken in line of the axis of the shaft K. Fig. 4 is an end view of the pulley L.

The nature of my invention is defined in the claims hereinafter presented.

In the drawings, A denotes one of the pillars of a combing-machine, to which I secure a bracket B, chambered at C, said chamber being closed at its front by a cover *a*, secured to the bracket by bolts *y*. Within the said chamber is a slide-frame D, supported between ways *a a*, adjustably applied to the bracket. Screws *b b*, screwed into the bracket, are arranged with their heads against the outer edges of said ways, so that by turning said screws they will move the ways and take up the wear between said ways and the adjacent edges of the said slide-frame. A slide-rod E, attached to the frame D, extends through the bottom of the chamber, and a stuffing-box F projects from the bracket and has fixed to its lower end a brush G. To the upper part of the frame D in a slot 25 a pin *c* is adjustably secured by means of a nut 26 and washer 27, said pin having a head 28 and being embraced by the upper end of a connecting-rod H, said rod being made in halves, as shown, secured together by a bolt *d*. The lower end of said rod embraces the crank-pin

e of a wheel I, keyed to a horizontal shaft K, supported in the bracket. The said connecting-rod is made in halves for convenience in applying it to or removing it from said pins *c* and *e*. The portion of the pin *c* which is embraced by the rod H is round, while that portion which fits within the slot 25 is square in cross-section to prevent it from turning therein, and between the square and round portions of the pin *c* is a collar 29, made integral with the said pin, which is seated in the rabbeted edges 30 of the slot 25 and projects slightly beyond the surface of the frame D to prevent the contact of the rod H therewith. Fixed to the said shaft K is a pulley L, which is made in half-sections *vv* to facilitate its application to or removal from the shaft, said sections being fastened together and clamped to the shaft by bolts *vv*, applied to ears *uu*, projecting from each half of the pulley. (See Fig. 4.) A stuffing-box M projects from the bracket and extends within the pulley, as represented, the gland thereof having in its edge a series of holes *f* to facilitate the turning of it, when desired, by a rod introduced within the opening in the pulley and into said holes. Nuts *g* and *h* are screwed on the outer end of the shaft K to prevent endwise movement of the shaft in its bearings. A conduit *i* leads from the outer bearing *j* of the said shaft and through the top of the bracket, and is there provided with an oil-cup N, as represented.

On motion being imparted to the pulley L by a band from a pulley on the driving-shaft of the combing-machine (said machine and driving-pulley and band not being shown in the drawings) the sliding frame D and rod E will be rapidly reciprocated and the brush G caused to thoroughly dab the material into the teeth of the comb, and the oil in the chamber C being agitated to such an extent by the frame D dashing into it as to fill the said chamber with spray, which keeps the working parts therein well lubricated.

What I claim is—

1. The chambered bracket provided with the stuffing-boxes F and M, in combination with the sliding frame and rod supported in said bracket, the shaft and pulley, the crank-

wheel fixed to said shaft, and the connection-rod connecting said frame and crank-wheel, as and for the purpose explained.

2. The combination of the chambered
5 bracket provided with stuffing-boxes F and M, the sliding frame and rod supported in said bracket, the brush fixed to said rod, the shaft and crank-wheel, the connection-rod
10 L, made in sections fixed to the shaft K, as and for the purpose set forth.

3. In a dabbing mechanism for combing-machines, the connection-rod H, made in sections secured to each other, in combination

with the sliding frame and rod, the chambered 15 bracket provided with stuffing-boxes F and M, the crank-wheel and shaft, the pulley L, made in sections fixed to said shaft, the stuffing-box gland within said pulley provided with holes *f*, the ways *a a*, and adjusting- 20 screws *b*, all arranged essentially as and for the purpose set forth.

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

JAMES PARKIN.

Witnesses:

S. N. PIPER,

J. L. PATCHETT.