(No Model.)

C. R. SEDDON.

MECHANISM FOR IMPARTING MOTION TO SHAKE FRAMES.

No. 561,529. Patented June 2, 1896.

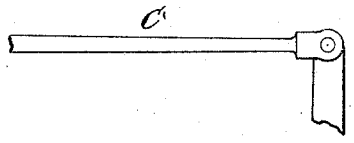


Fig. 1.

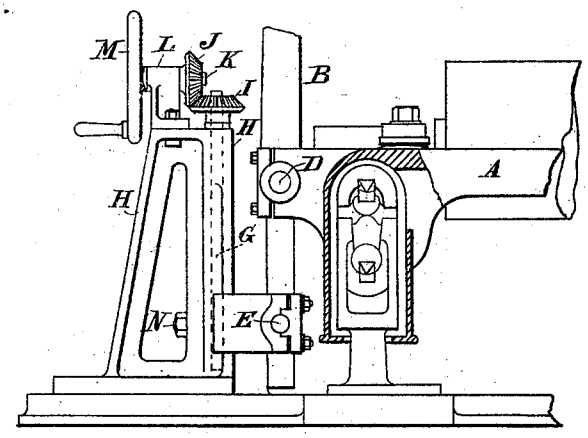
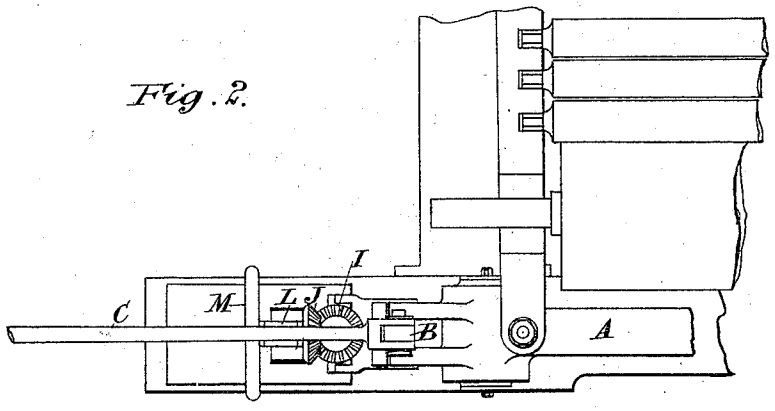


Fig. 2.



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UNITED STATES PATENT OFFICE.

CHARLES R. SEDDON, OF BURY, ENGLAND, ASSIGNOR OF ONE-HALF TO GEORGE BENTLEY AND JOHN BROAD JACKSON, OF SAME PLACE.

MECHANISM FOR IMPARTING MOTION TO SHAKE-FRAMES.

SPECIFICATION forming part of Letters Patent No. 561,529, dated June 2, 1896.

Application filed October 15, 1894. Serial No. 525,982. (No model.)

To all whom it may concern:

Be it known that I, CHARLES ROBERT SEDDON, manager, a subject of the Queen of Great Britain and Ireland, residing at 285 Rochdale Road, Bury, in the county of Lancaster, England, have invented certain Improvements in Mechanisms for Imparting Motion to Shake-Frames, of which the following is a specification.

The object of my invention is to provide the operating mechanism for imparting the shaking movement to the shake-frames of paper-making machines or analogous purposes with means whereby the degree of shaking imparted can be regulated and adjusted without stopping the machine or interfering with the connecting-rod and gear or mechanism from which the shaking motion is obtained. This I effect by making the distance between the fulcrum upon which the operating-lever oscillates and the point of attachment thereto or connection therewith of the shake-frame or its equivalent variable or adjustable. This variation or adjustment can be effected by making the said fulcrum movable and fixable in the adjusted position.

I will describe this invention more particularly with reference to the accompanying drawings (illustrating its application to the operation of the shake-frames of paper-making machines) by an example in which the fulcrum on which the lever oscillates is adjustable.

Figure 1 is a side elevation, and Fig. 2 is a plan, of so much of a machine as is necessary to illustrate this invention.

Referring to the drawings, A is part of the shaker-frame of a paper-making machine, and B is the lever, which is connected thereto by the center-pin at D, the said lever B being oscillated by any usual or suitable device through the connecting-rod C. The said lever B is oscillated upon a fulcrum at E, which fulcrum may consist of a pin passing through a slot in the lever B or a sleeve carrying pins through which the lever passes. The said pin or pins is or are carried in bearings in the piece *e*, which is provided with a nut in which the screw G works, the said screw being capable of being rotated, but not of moving longitudinally in the standard H. Rotation is imparted to the screw G by means of a hand-wheel M, keyed on a shaft K, mounted in a bearing L and having keyed to it a bevel-wheel J, which gears with another bevel-wheel I, keyed to the screw G. By rotating the hand-wheel M in one or the other direction the screw G is rotated, so that it causes the fulcrum E to move nearer to or farther from the point of attachment or connection of the shaker-frame at D, and thus the length of motion given to the shake-frame can be adjusted as required and with the greatest nicety, in accordance with the kind of paper being manufactured. After the adjustment has been made the fulcrum E is locked in position on the screw G by means of the pinch-nut N.

It will be evident that the invention is not restricted to the precise details shown. For example, the screw G may be operated in any convenient manner, such as by a hand-wheel secured directly to it.

I have described the application to the imparting of the motion to the shake-frames of paper-making machines; but it will be evident that a shaking motion can be imparted in the same way to other devices which require to have a shaking motion imparted to them which it is desirable to make variable or adjustable.

I claim as my invention—

The combination of the shake-frame of a paper-making machine with a lever, a fulcrum movable on one end of the lever, means for oscillating the lever at its other end, a pivotal connection between the shake-frame and the lever and located between the said fulcrum and said oscillating means, a screw engaging with and operating the carrier of the said fulcrum, a vertical supporting-standard, H, for the screw, and means for operating the screw to move the fulcrum nearer to or farther from the said pivotal connection without stopping the movement of the shake-frame, substantially as and for the purposes set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES R. SEDDON.

Witnesses:

C. R. CRESSWELL,

J. F. HOLFORDE.