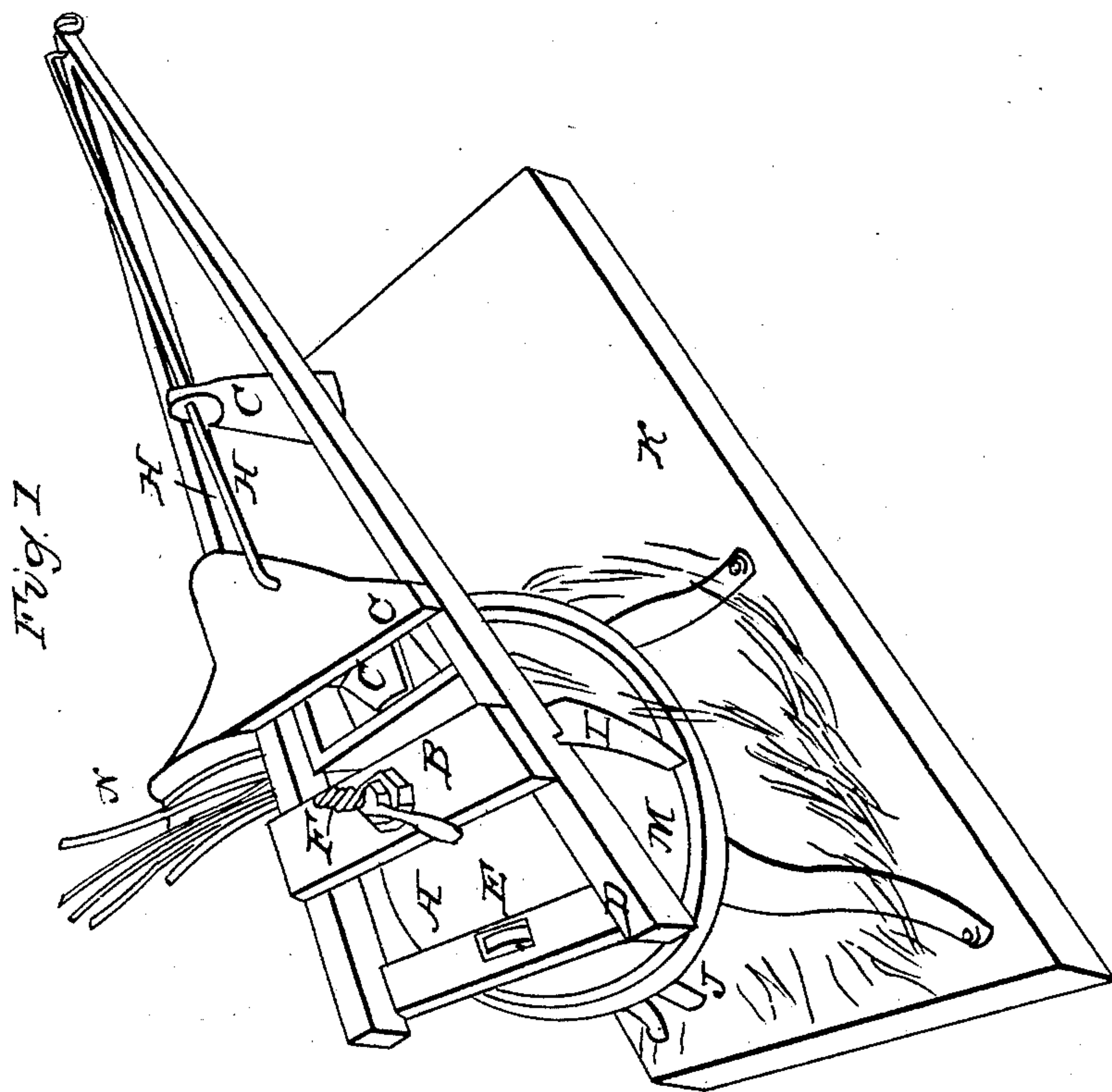
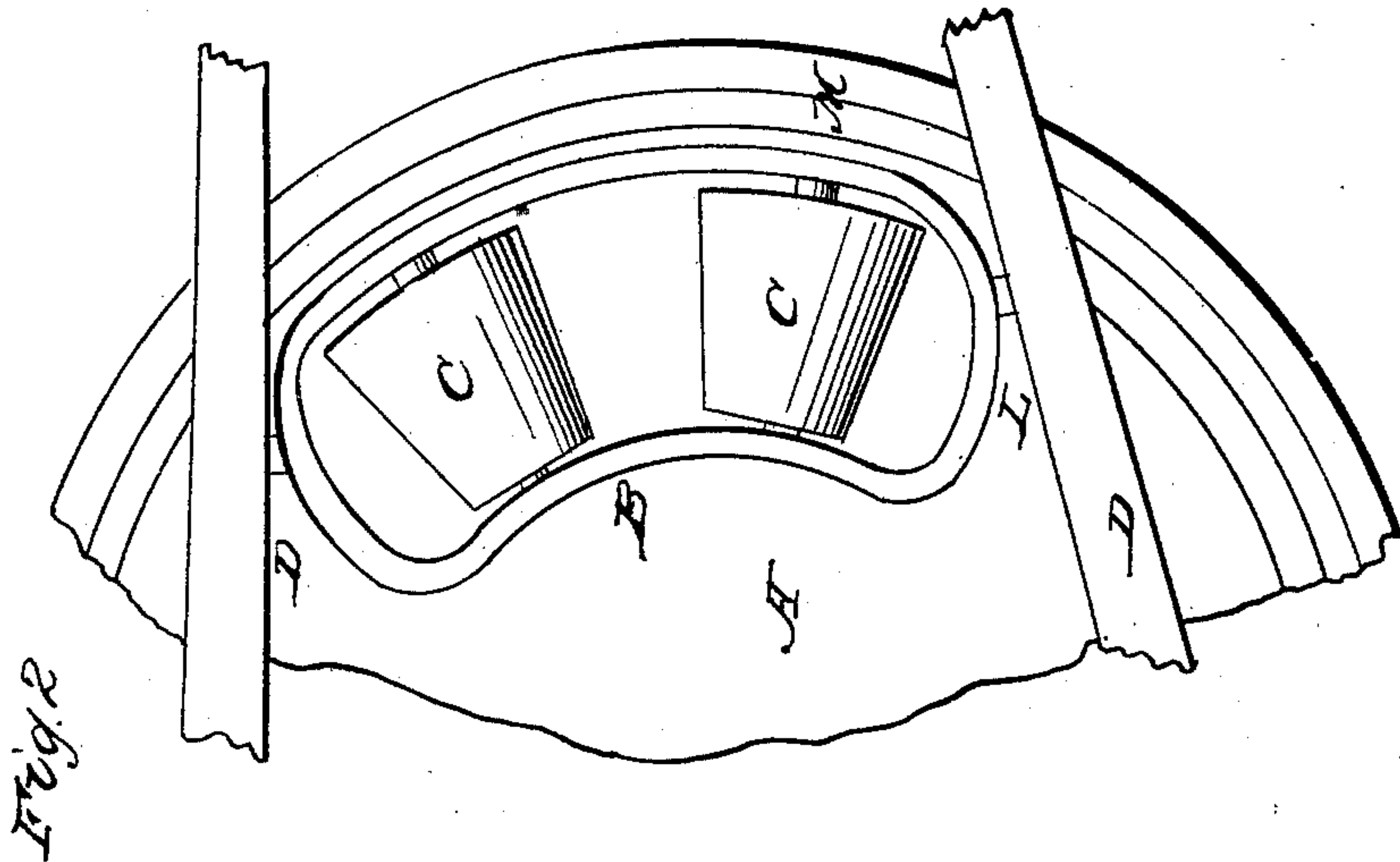


F. E. DAKE.

Sugar Mill.

No. 20,124.

Patented April 27, 1858.



# UNITED STATES PATENT OFFICE.

FREDK. E. DAKE, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO HIMSELF AND THOS. E. HUNT, OF SAME PLACE.

## SUGAR-MILL.

Specification of Letters Patent No. 20,124, dated April 27, 1858.

*To all whom it may concern:*

Be it known that I, FREDERICK E. DAKE, of Indianapolis, in the county of Marion and State of Indiana, have invented a new and useful Improvement in Sugar-Mills; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and to the letters of reference marked thereon.

Figure 1, is a perspective and Fig. 2 a sectional view, showing the construction and operation of the machine.

A is a bell-plate firmly bolted to the platform K.

C, C are rollers in the frame B, which works upon the journals L L.

G is a weight sliding upon the rod H for the purpose of increasing or decreasing the pressure produced by the lever frame D, between the rollers C, C and bed-plate A.

N is a hopper or spout where the cane is fed under the rollers C, C.

I is a scraper to clear the crushed cane from the surface of the bed-plate A.

M, is a groove or trough to conduct the juice to the spout J.

The following is the operation of the machine: The cane being fed under the rollers C, C, through the hopper N, by revolving the lever frame D, the juice as expressed passes down into the trough M. F a screw and washer represents the fulcrum to the lever D, giving the pressure upon the cane by the rollers C, C. The amount of pressure required is obtained by adjusting the weight or force G upon the rod H. The yoke or roller frame B, is pivoted upon the journals L, L, thereby allowing the same pressure upon each when stalks varying in size are passed under. By this arrangement I secure uniform pressure upon masses of various dimensions.

What I claim as my invention and desire to secure by Letters Patent is—

The combination and arrangement of the lever-frame D sliding weight G, and rollers C, C, with the bed-plate A, when constructed substantially in the manner and operated for the purposes above described.

FREDERICK E. DAKE.

Witnesses:

H. W. ELLSWORTH,  
S. A. COLBY.