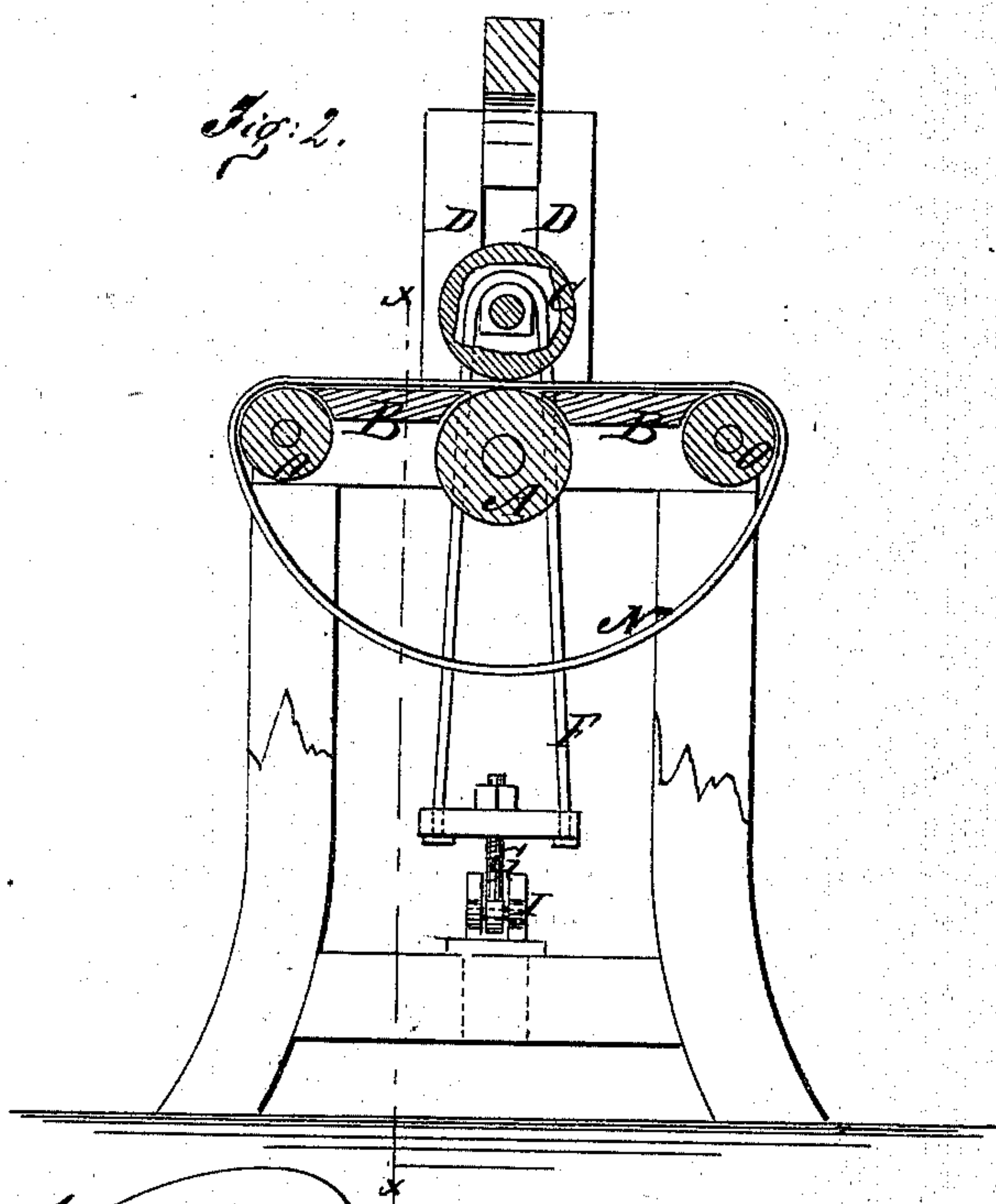
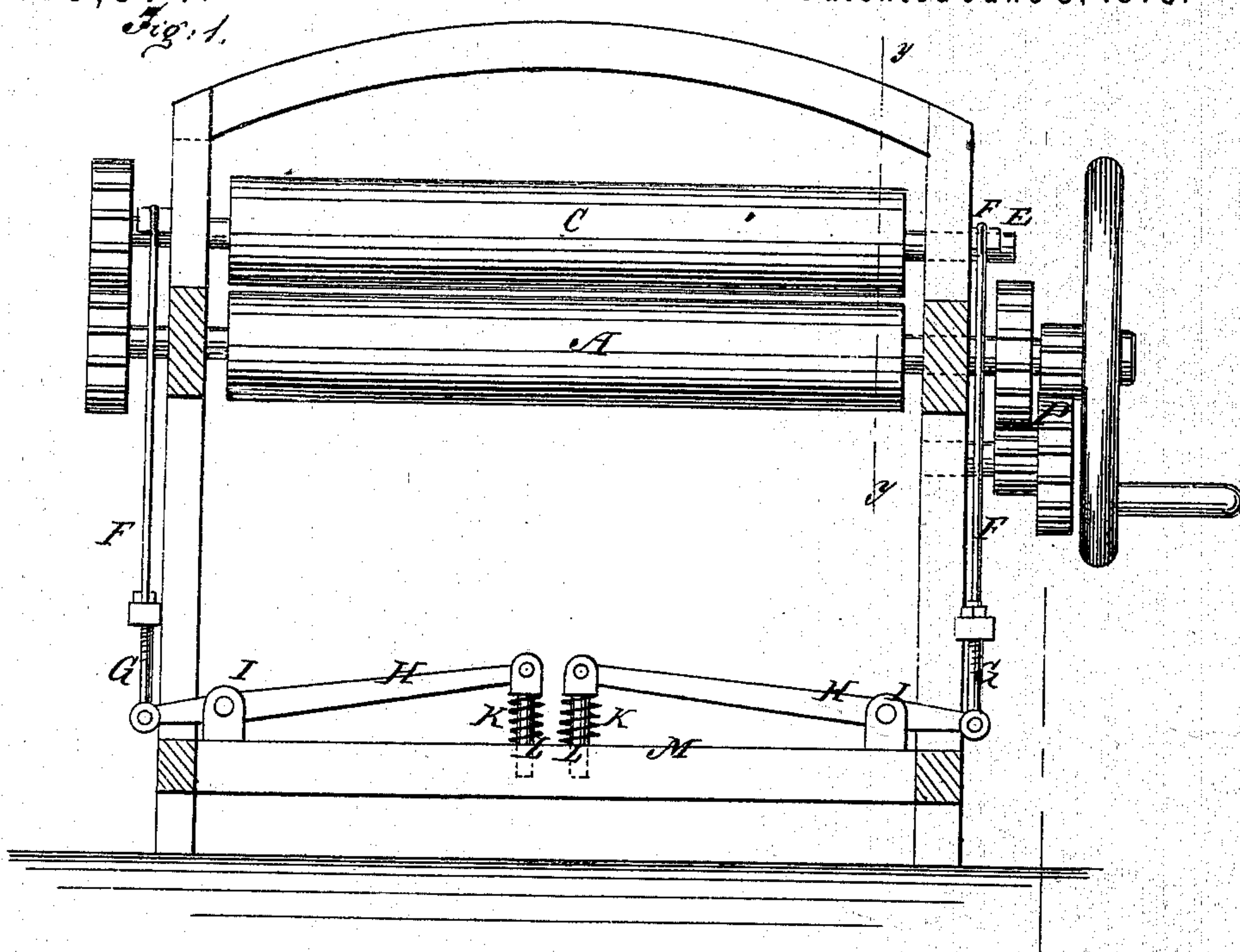


T. HALL & J. NEWTON.
Mangling or Wringing-Machines.

No. 139,574.

Patented June 3, 1873.



Witnesses:

Chas. Nida.
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UNITED STATES PATENT OFFICE.

THOMAS HALL AND JAMES NEWTON, OF LAWRENCE, MASSACHUSETTS.

IMPROVEMENT IN MANGLING OR WRINGING MACHINES.

Specification forming part of Letters Patent No. **139,574**, dated June 3, 1873; application filed March 1, 1873.

To all whom it may concern:

Be it known that we, THOMAS HALL and JAMES NEWTON, of Lawrence, in the county of Essex and State of Massachusetts, have invented a new and Improved Mangling or Wringing Machine, of which the following is a specification:

Our invention consists of an arrangement of long levers and springs to obtain the pressure on the pressure-roller by light and sensitive springs, which are better adapted for obtaining a wide range of movement than the strong heavy springs which are necessary when short levers are used or none at all.

Figure 1 is a sectional elevation of our improved machine, taken on the line *xx* of Fig. 2. Fig. 2 is a transverse section taken on the line *xx* of Fig. 1.

A is the lower mangling and wringing roller, which is mounted in fixed bearings, so that the top runs flush with the top of the table B. C is the upper roller, with its journals arranged in the slotted housings D, so as to rise and fall. Its shaft is connected by caps E, stirrups F, and adjusting screws G, with the short arms of levers H projecting through the frame at the ends near the bottom from the pivots I, while the long arms

extend to the center or thereabout, where they are provided with light coiled springs K on vertical rods L, pivoted to the levers to rise and fall with them to control the springs, which rest on the bottom rail M of the frame, to produce the pressure on the roller C. The tension is varied by the adjusting-screws G. N is the endless carrier, of canvas or other suitable substance, passing between the rollers A C over a guide-roller O at each end of the table and under it, and the roller A to draw the clothes along the table and between the rollers A C. The crank is geared with roller A at one end of the machine by the train of reducing gears P, and the rollers A C are geared together at the other end.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

The combination of the springs K, levers H, adjusting screws G, and stirrups F, with the pressure-roller C, substantially as specified.

THOMAS HALL.
JAMES NEWTON.

Witnesses:

WILLIAM EDWARD HALL,
FREDRICK PEET.