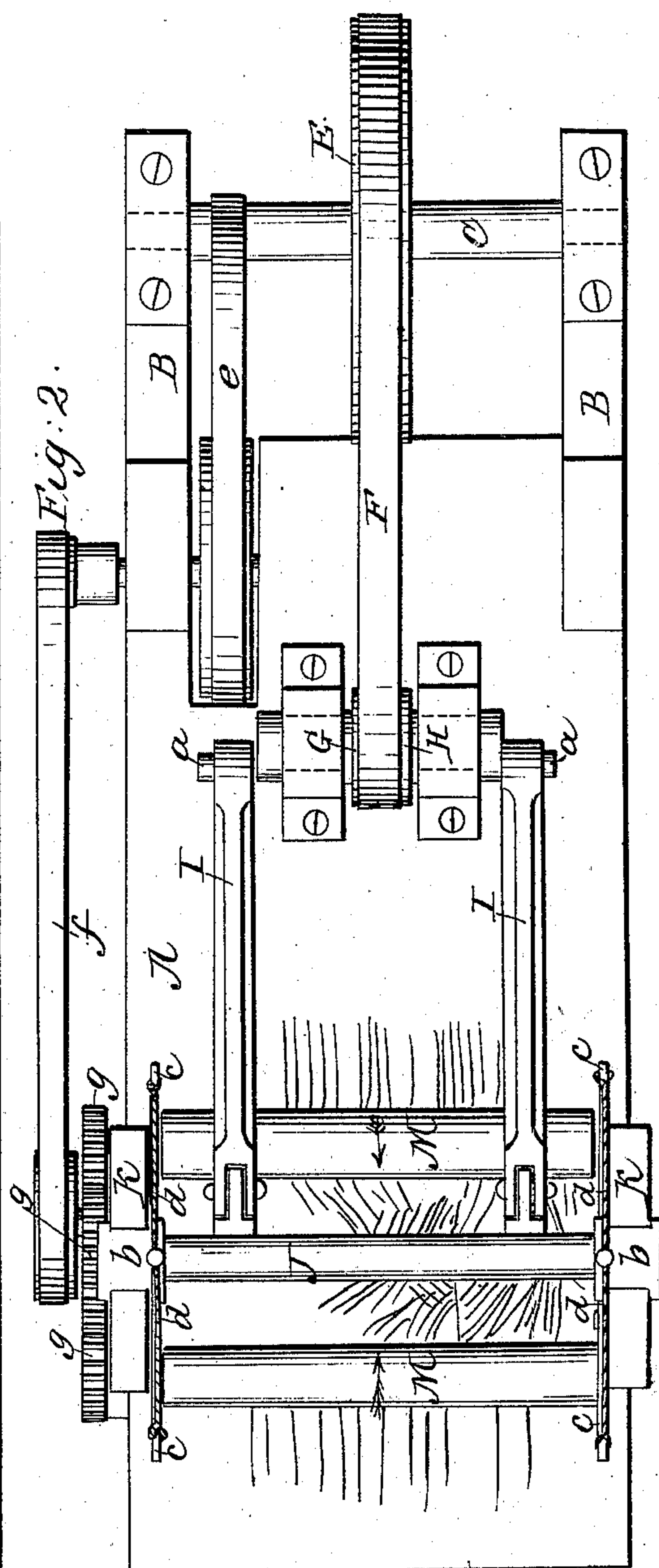
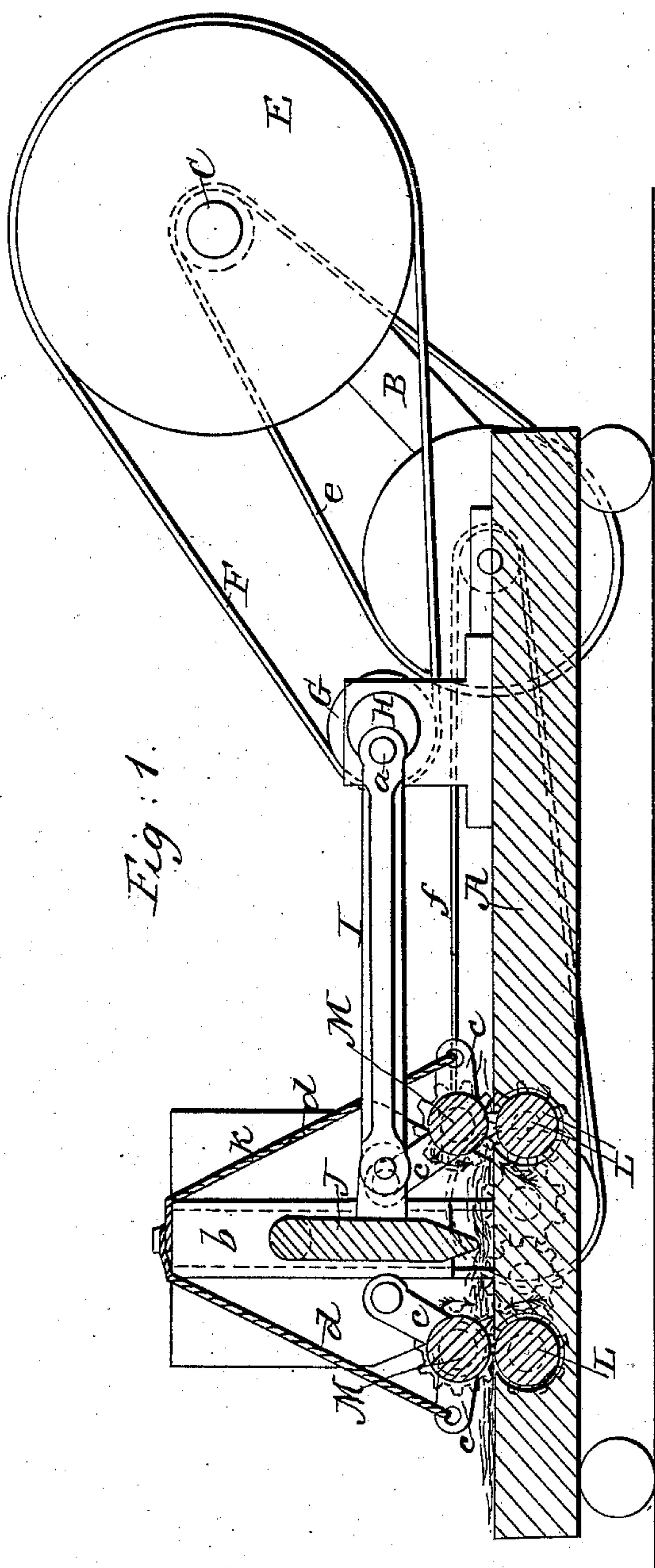


Brush Machine.

No. 15,573.

Patented Aug. 19, 1856.



UNITED STATES PATENT OFFICE.

ADONIJAH RANDEL, OF NEW YORK, N. Y.

BRISTLE-SEPARATOR.

Specification of Letters Patent No. 15,573, dated August 19, 1856.

To all whom it may concern:

Be it known that I, ADONIJAH RANDEL, of the city, county, and State of New York, have invented a new and useful Machine for
5 Separating or Properly Disposing Bristles for Brush-Makers' Use; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making
10 a part of this specification, in which—

Figure 1, is a longitudinal vertical section of my improvement, the plane of section being through the center. Fig. 2, is a plan or top view of ditto.

15 Similar letters of reference indicate corresponding parts in the two figures.

My invention consists in the employment or use of a vibrating board, and discharging rollers placed upon a proper bed plate, and
20 arranged and operating, as will be presently shown and described, whereby the bristles are separated and disposed, so that the butts will be side by side, and the bristles be discharged butt foremost between the discharg-
25 ing rollers.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A, represents a bed or platform, on one
30 end of which, two supports B, B, are placed, having a driving shaft C, at their upper ends. The driving shaft has a crank at one end, and a pulley E, is also placed upon it, said pulley having a belt F, passing around
35 it, which belt also passes around a pulley G, on a shaft H, which works in proper bearings on the bed A. The shaft H, has a crank (a), on each end of it, and a connecting rod I, is attached to each crank, the connect-
40 ing rods being also connected to a board J, the upper part of which is pivoted at each side, to slides (b), (b), which work in vertical grooves, in uprights K, K, attached, one at each side of the bed A.

45 L, L, are two rollers, which are fitted in the bed A, one at each side of the board J, and M, M, are two rollers, which are placed directly over the rollers L, L, and rest upon

them. The rollers M, M, have their axes fitted in plates (c), the inner ends of which 50 are pivoted to the uprights K, K, the outer ends of the plates being connected by cords or chains (d), to the slides (b), (b). The rollers L, M, are rotated from the driving shaft C, by means of belts (e), (f), and gear 55 wheels (g), as shown in Fig. 2. The rollers rotating in the direction indicated by the arrows.

The bristles shown in red, are placed underneath the board J, the board being 60 raised, so that the bristles may be placed underneath it. The upper rollers M, serve as weights to the board J, and keep its lower edge upon the bristles. Motion is then given the shaft C, in any proper manner, and a 65 vibrating motion is communicated to the board J, and the lower edge of the board acts upon the bristles, and as it works back and forth, the butts of the bristles will be separated from the points, and the butts will 70 be passed foremost through or between the rollers L, M, at each side of the board J, as shown in Fig. 2. This work of assorting or separating the bristles, or placing the butts or points side by side, is now done by 75 hand. Bristles come in packages completely mixed, that is, butts and points matted together, and it is necessary of course, that the bristles be arranged with their butts side by side, in order that they may be properly 80 placed in brushes, the points forming the ends of the brushes.

The above invention will save a vast deal of labor. It is very simple, and may be constructed at a small cost. 85

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is—

The vibrating board J, and discharging rollers L, L, M, M, arranged and operating 90 as shown, for the purpose specified.

ADONIJAH RANDEL.

Witnesses:

WM. TUSCH,
JOHN RUDMAN.