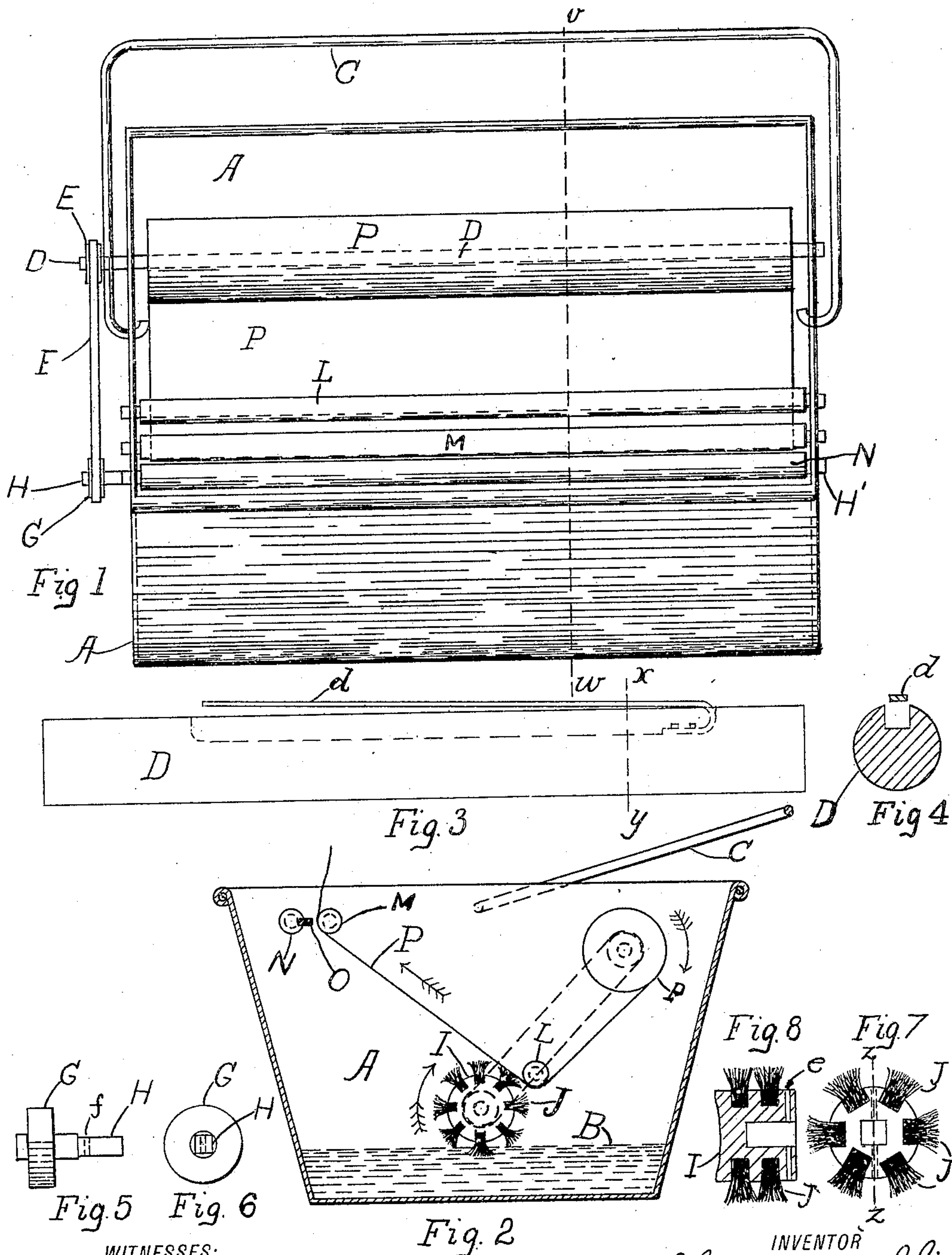


No. 836,714.

PATENTED NOV. 27, 1906.

C. O. SHIRK.
WALL PAPER HANGER.
APPLICATION FILED SEPT. 12, 1905.



WITNESSES:
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UNITED STATES PATENT OFFICE.

CHRISTINA O. SHIRK, OF SIOUX CITY, IOWA.

WALL-PAPER HANGER.

No. 836,714.

Specification of Letters Patent.

Patented Nov. 27, 1906.

Application filed September 12, 1905. Serial No. 278,073.

To all whom it may concern:

Be it known that I, CHRISTINA O. SHIRK, a citizen of the United States, residing at Sioux City, in the county of Woodbury and State of Iowa, have invented a new and useful Wall-Paper Hanger; and I do declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part thereof.

My invention relates to means for hanging wall-paper.

The object of the invention is to provide a machine which will do the work of spreading the paste and assist in the manual application of the paper to the wall.

I have illustrated my invention in the accompanying drawings, in which—

Figure 1 is a plan view of the invention inclined forward at an angle of about forty-five degrees. Fig. 2 is a cross-section on the line *vw*, Fig. 1. Fig. 3 is an enlarged detail view of shaft or spindle to which the roll of paper is adjusted in the machine. Fig. 4 is a cross-section on the line *xy*, Fig. 3. Fig. 5 is a detail view of pulley and end of shaft of brush-roller, showing means for adjusting the roller. Fig. 6 is an end view of the same. Fig. 7 is an end view of brush-roller for applying the paste. Fig. 8 is a cross-section of one end of same on line *zz*, Fig. 7.

Referring now to these illustrations, in which like parts are designated by similar letters of reference, A is the box or frame in the bottom of which is the paste B. The box may be of any desired shape, preferably square and diverging toward the top, and is provided with a bail C. A round shaft or spindle D extends the length of the box and is supported in the ends thereof. At one end of the box a pulley E is secured to the end of the spindle. The spindle is provided with a square slot or groove, as seen in Fig. 3, adapted to receive a flat spring *d*, set in at one end of the slot and secured therein, the other end being free. As the rolls of paper are not all of the same size, the spring will press against the inside of the roll and cause it to fit snugly to the spindle and prevent the paper from turning on the spindle. As the spindle is of the same size its whole length, it is easily taken out of the box to adjust the roll. A belt F connects the pulley E with a pulley G on the end of the stub-shaft H, which slides into a square opening in the end of the brush-roller I, the brushes J J be-

ing attached at necessary intervals. The shaft H is removable to permit the withdrawal of the roller for the purpose of cleaning the brushes. The opposite end of the brush-roller turns on a stub-shaft H', secured in the end of the roller and passing through the frame. After the shaft H is adjusted in the roller it is secured by inserting a pin in the holes *e* in the roller I and *f* in the shaft H.

When the wall-paper P is adjusted to the spindle, the free end of the paper is brought under a guide-roller L, supported between the ends of the box, which holds it in contact with the brushes, and then passes up between the guide-roller M and the stationary roll N, the latter being provided with a distributor O, preferably made of rubber, which distributes the paste and removes the superfluous paste, which falls into the bottom of the box.

After the roll of paper has been adjusted to the spindle and rollers and the free end drawn out, as shown in Fig. 2, the box is placed on the floor at the foot of the wall-space where it is desired to hang the paper. The paper is drawn out until the end reaches the top of the wall, where it is adjusted, the rest of the strip being pressed against the wall and then cut off at the bottom. The box is then removed to the next space, the process repeated, and so on until the walls are covered.

When the ceiling is hung, the free end of the paper is first adjusted and then the box carried the length of the strip in one hand, the other hand adjusting the paper to the ceiling as the paper is freed from the box.

The device may be modified in various ways without departing from the principle of my invention, and I desire to claim, broadly, the machine as it may be so varied and as my construction permits.

Having described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

In a wall-paper hanger, the combination of a supporting frame or box, a spindle supported therein and adapted for the adjustment of a roll of paper thereto, said spindle having a square slot therein, a flat spring *d*, secured in one end of said slot and adapted to press against the inside of the roll, a pulley secured to the end of said spindle, a brush-roller I having brushes, J, J, and a removable shaft H adapted to turn in said frame parallel with said spindle, a pulley secured to the end of said roller, a belt connecting said pul-

leys, a guide-roller L over which the paper is adapted to pass, a stationary roll N having a distributor O secured in said frame and adapted to distribute the paste and remove the superfluous paste therefrom, and a guide-roller
5 M over which the paper is adapted to pass, substantially as described.

In witness whereof I have hereunto affixed my signature in the presence of two witnesses.

CHRISTINA O. SHIRK.

Witnesses:

F. W. LOHR,

H. C. GARDINER.