

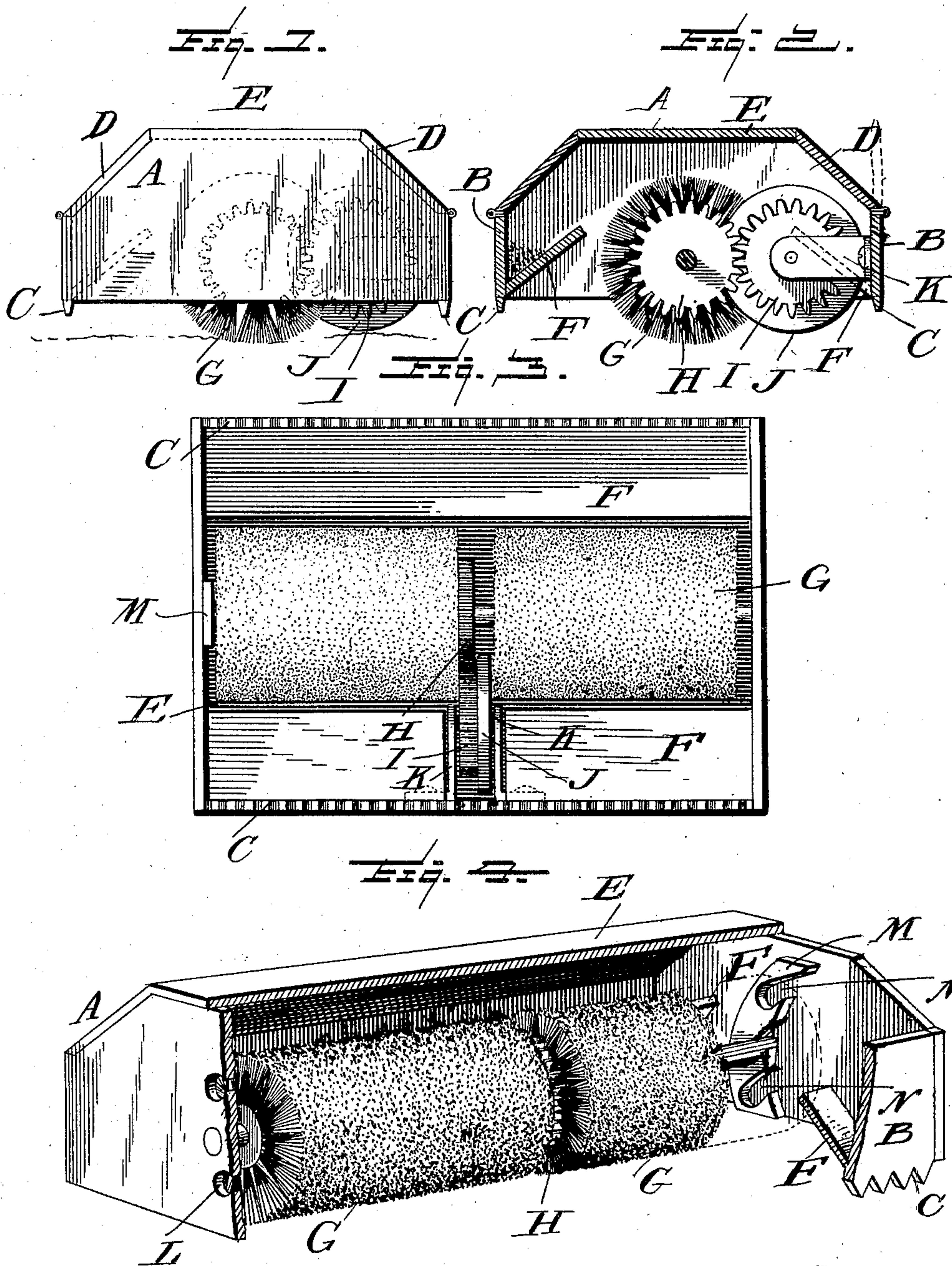
No. 663,697.

Patented Dec. 11, 1900.

W. GANO.
BRUSH.

(Application filed Sept. 24, 1900.)

(No Model.)



WITNESSES:

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WILLIAM GANO, OF SPRINGFIELD, OHIO.

BRUSH.

SPECIFICATION forming part of Letters Patent No. 663,697, dated December 11, 1900.

Application filed September 24, 1900. Serial No. 30,920. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM GANO, a citizen of the United States, residing at Springfield, in the county of Clark and State of Ohio, have invented certain new and useful Improvements in Brushes, of which the following is a full, clear, and exact specification.

My invention relates to improvements in brushes for currying purposes; and it consists in certain novel features hereinafter first fully described, and then particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is an end elevation of a currying-brush embodying my invention, the interior parts being shown in dotted lines. Fig. 2 is a central section of the same. Fig. 3 is a bottom plan view, and Fig. 4 is a detail perspective view.

In carrying out my invention I employ a casing A, having the lower edges of its front and rear ends B depending slightly below its sides and formed into currying-teeth C, as clearly shown. The top of the casing has front and rear inclined portions formed by doors D, hinged to the upper edges of the front and rear ends of the casing, resting on the cut-away portions of the sides and extending up to the central fixed portion of the top E. Extending upward and inward from the lower edges of the front and rear of the casing are shelves F, which with the sides of the casing form pockets to receive the dust and dirt loosened and raised by the brush. The brush G extends between the sides of the casing and is divided at its center to accommodate a pinion H, secured fixedly on its axis. This pinion meshes with a gear-wheel I, which is formed integrally with or secured rigidly to the face of a driving-wheel J, mounted between brackets K, projecting from the rear end of the casing, as shown. The driving-wheel rolls over the surface to which the brush is applied, and thereby actuates the gear-wheel and pinion to rotate the brush. In order to permit adjustment of the brush to vary the pressure exerted thereby or to compensate for wear of the same, I provide in one end of the casing a series of openings L, in any one of which the journal or end of the brush-axle may be engaged, and on the inner face of the opposite side of the casing I provide a bracket M, having a series of notches

or open-ended slots N in its rear edge. The openings L and the notches N are arranged in arcs having the axis of the gear-wheel I as their center in order that the pinion H will mesh with said gear-wheel in all positions of the brush.

The construction and arrangement of the several parts being thus made known, the operation of the device will be readily understood. The casing is pushed over the horse to be curried or the surface to be cleaned with the driving-wheel in contact with the surface, so that the frictional contact will rotate the said wheel. The motion of the driving-wheel is communicated, through the gear-wheel and pinion, to the brush, so as to rotate the brush in the opposite direction, and consequently cause it to raise the dust and dirt and force the same over the edges of the shelves into the pockets or dust-receptacles. After the brushing operation is completed the doors are opened and the pockets emptied.

The device is very simple in its construction and is highly efficient in its operation.

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

1. In a device of the character described, the combination with the casing having upwardly and inwardly inclined shelves at its front and rear ends and provided with currying-teeth on the lower edges of said ends, of a rotary brush extending between the sides of the casing, brackets projecting from the rear end of the casing, a driving-wheel mounted in said brackets, and gearing connecting said driving-wheel with the rotary brush.

2. In a device of the character set forth, the combination with the casing having a series of openings in one side and provided at the opposite side with a bracket having a series of notches, of a brush having its axle adapted to engage the said openings and notches, a driving-wheel carried by the rear end of the casing, and gearing connecting said driving-wheel with the brush.

In testimony whereof I have signed this specification in the presence of two witnesses.

WILLIAM GANO.

Witnesses:

L. F. YOUNG,
H. N. VAN METER.