

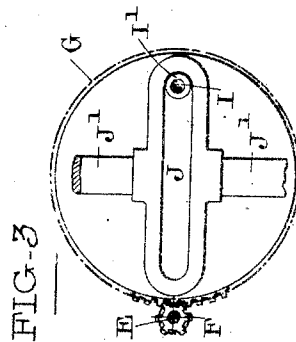
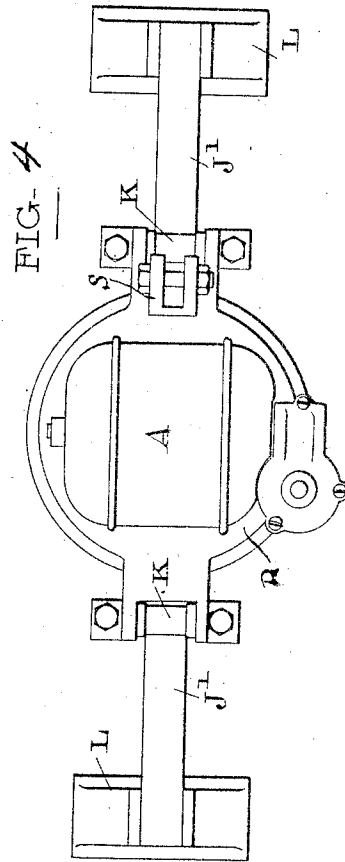
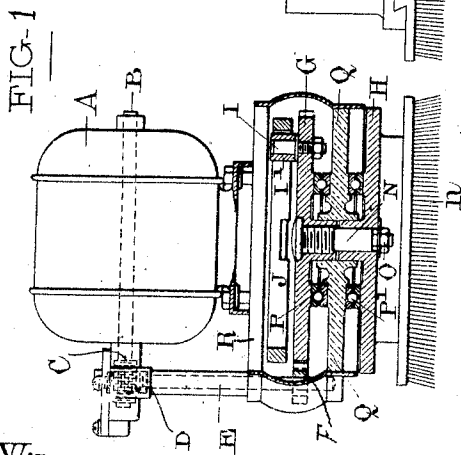
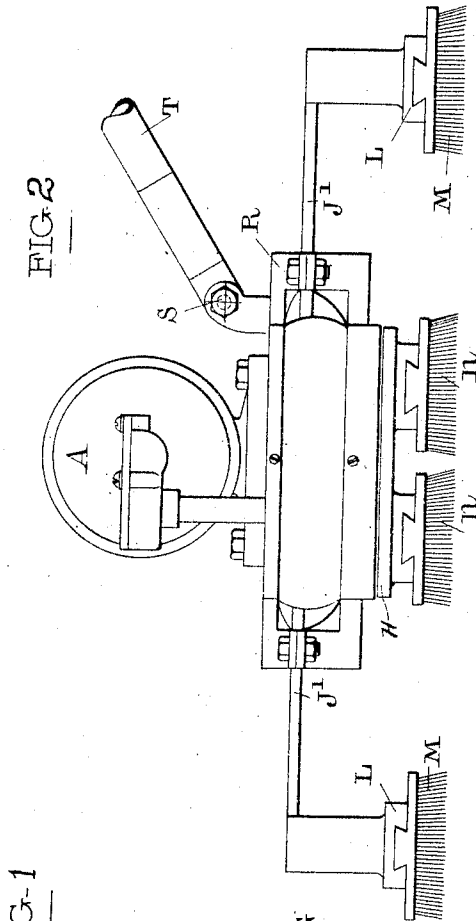
No. 883,166.

PATENTED MAR. 31, 1908.

J. BRUYÈRE.

BRUSH FOR PARQUETRY FLOORING AND THE LIKE.

APPLICATION FILED SEPT. 27, 1906.



Witnesses:

Jean Germain
Hippolyte Pillelongue

Inventor:

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UNITED STATES PATENT OFFICE.

JOSEPH BRUYERE, OF LE PUY, FRANCE.

BRUSH FOR PARQUETRY-FLOORING AND THE LIKE.

No. 883,166.

Specification of Letters Patent.

Patented March 31, 1908.

Application filed September 27, 1906. Serial No. 336,426.

To all whom it may concern:

Be it known that I, JOSEPH BRUYERE, a citizen of the French Republic, residing at Le Puy, Haute-Loire, in France, have invented certain new and useful Improvements Relating to Brushes for Parquetry-Flooring and the Like, of which the following is a specification.

This invention relates to an electrically operated rotary brush for cleansing and polishing parquetry floors and the like, the said rotary brush being preferably caused to co-act with auxiliary reciprocating brushes working in the direction of the grain of the wood. In addition to assisting the polishing action, the reciprocating brushes have the advantage of neutralizing the tendency of the rotary brush to impart axial rotation to the carriage or frame, so that the reciprocating brushes obviate the necessity of applying force for the purpose of keeping the carriage stationary or guiding it in a particular direction.

The invention is illustrated in the annexed drawing by means of examples.

Figure 1, is a view partly in elevation and partly in section of the invention; Fig. 2, is a view in side elevation of the device; Fig. 3, is a top plan view of Fig. 2, with the guiding member omitted; and Fig. 4, is a detail view illustrating the mechanism by which the reciprocating brushes are actuated.

The apparatus illustrated in Figs. 1 to 3 comprises an electro-motor A, the shaft B of which is provided at one end with a worm C in mesh with a worm D fixed to the upper end of a vertical shaft E. To the lower part of the latter is fixed a toothed wheel F which meshes with a horizontal toothed wheel G connected by a screw N and nut O to the brush-holder H which carries two brushes *n*.

To the wheel G is fixed a pin I provided with a rotatable sleeve I' and working in a slotted part J provided with two arms J'. The latter are supported by suitable guide-rollers K journaled in the frame R in such a manner that rotation of the wheel G with the pin I imparts rectilinear reciprocating movement to the parts J and J'. To the outer ends of the arms J' are fixed holders L carrying brushes M. The shaft B is supported at

its lower end by a plate Q supported by ball-bearings P P' between the toothed wheel G and the brush-holder H. The plate Q forms part of the frame R. The races of the said ball-bearings are of comparatively large diameter in order to insure stability of the structure and regular wear of the rotatable brushes *n*, the weight of the structure being entirely borne by the latter. The motor A is bolted onto the frame R and the latter is provided with lugs S, to which is pivotally connected a tubular guide-bar T. The brushes *n* and *m* are of the usual type used for floor polishing and may be of any convenient shape, their backs having dovetail bars whereby they can be removably fixed to their carriers L and H.

When the motor is driven, the gear mechanism C D E G causes the brush-holder H and brushes *n* to be revolved about the axis of the screw N, the brushes M being at the same time reciprocated by means of the parts I, J and J'.

What I claim as my invention and desire to secure by Letters Patent of the United States is:—

1. In a floor brushing apparatus, the combination of a portable frame, a wheel mounted on said frame, means for rotating said wheel, a brushing system caused to rotate with the rotation of the wheel, a slotted member arranged above the wheel, arms projecting from the slotted member, brushes carried by the arms, and a pin on the wheel extending within the slot of the slotted member.

2. In a floor brushing apparatus, the combination of a portable frame, a wheel mounted on said frame, means for rotating said wheel, a brushing system caused to rotate with the rotation of the wheel, a slotted member arranged above the wheel, arms projecting from the slotted member, brushes carried by the arms, a pin on the wheel extending within the slot of the slotted member, and guides carried by the frame for supporting the arms of the slotted member.

3. In a floor brushing apparatus, the combination of a portable frame, a wheel mounted on said frame, means for rotating said wheel, a brushing system caused to rotate

with the rotation of the wheel, a slotted member arranged above the wheel, arms projecting from the slotted member, brushes carried by the arms, a pin on the wheel extending within the slot of the slotted member, and rollers carried by the frame for supporting the arms of the slotted member.

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

JOSEPH BRUYÈRE

Witnesses:

JEAN GERMAIN,
HIPPOLYTE VILLELONGUE.