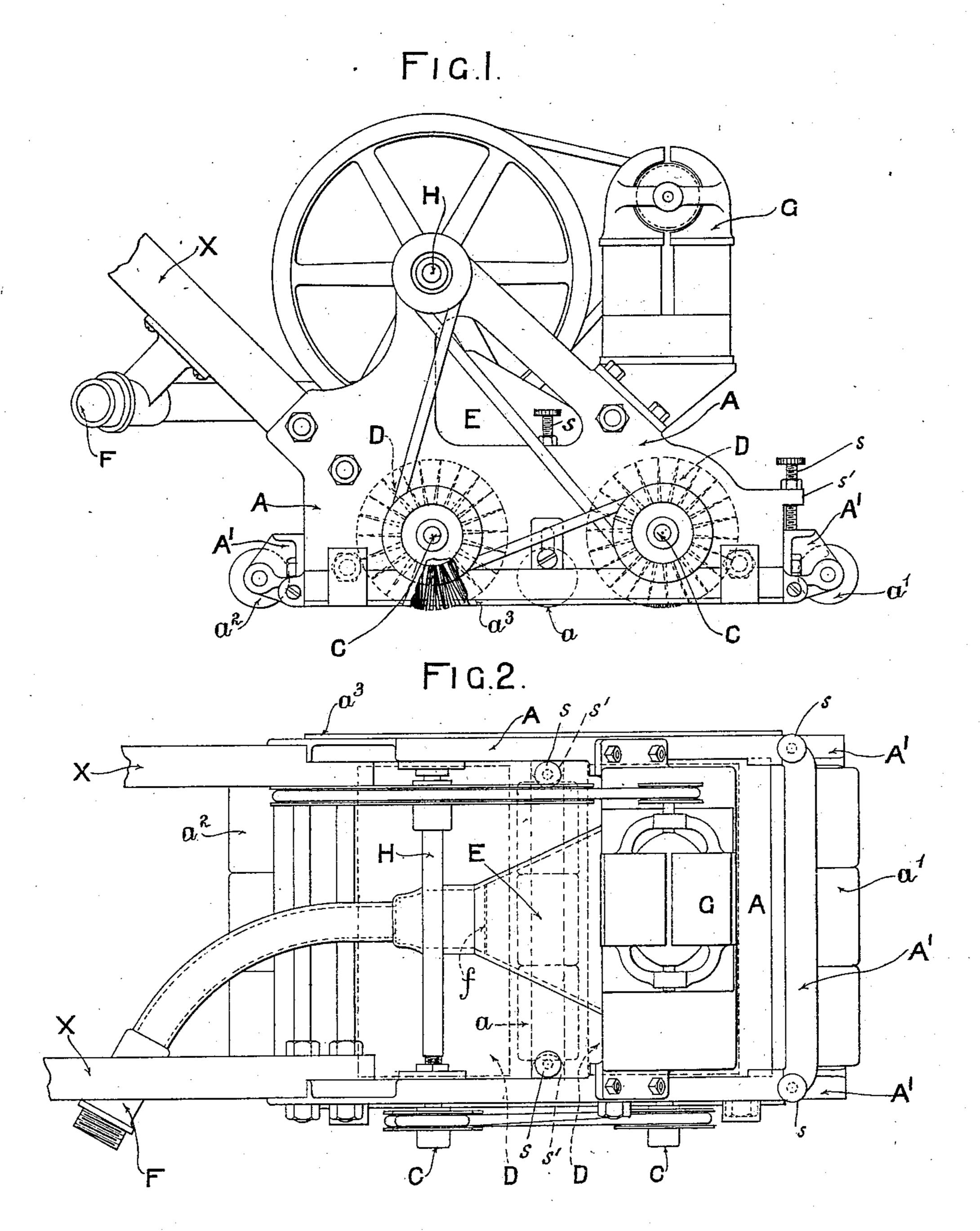
F. J. FARRELL. APPARATUS FOR CLEANING CARPETS, &c. APPLICATION FILED MAY 9, 1902.

NO MODEL.

2 SHEETS-SHEET 1.



WITNESSES. James. St. Davies. 4. V. Symes.

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His Altorney.

PATENTED APR. 21, 1903.

F. J. FARRELL.

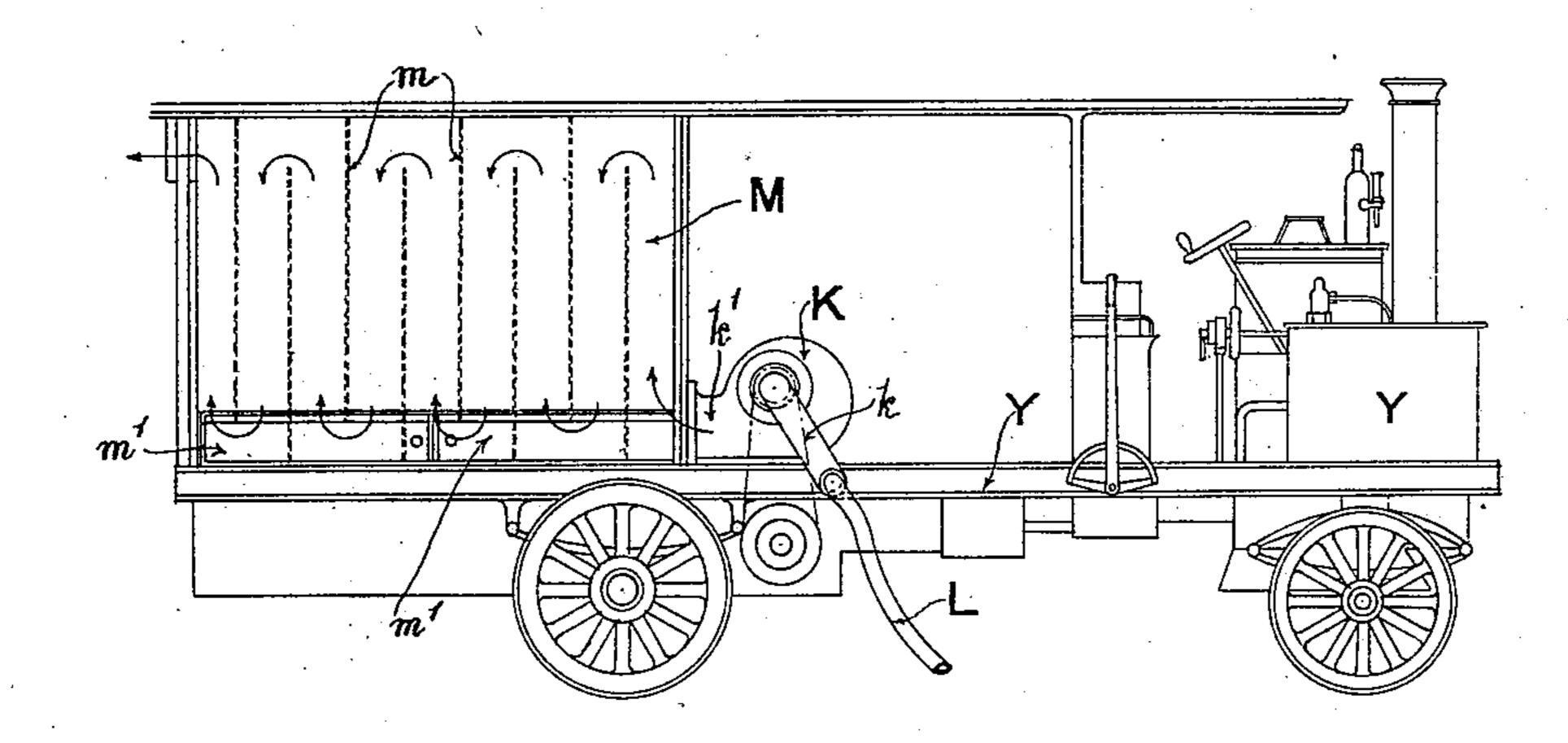
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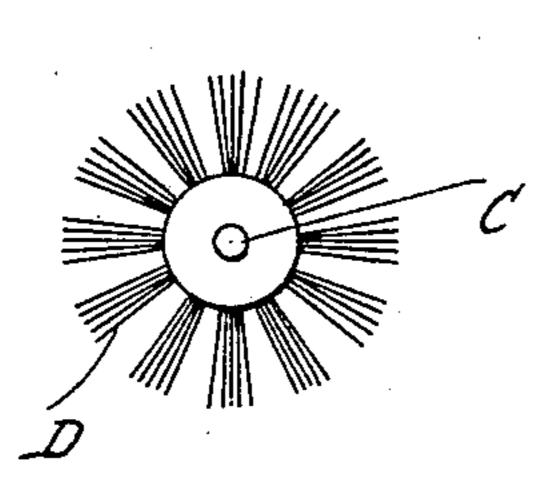
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2 SHEETS-SHEET 2.

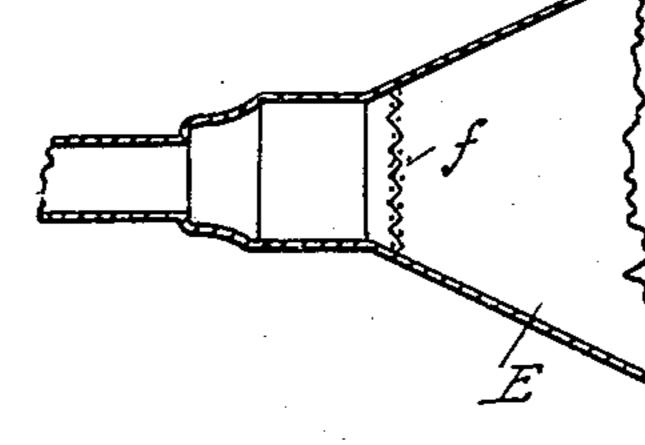
FIG.3.



F16-4-



FIC.5.



James. A. V. Symes.

INVENTOR

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UNITED STATES PATENT OFFICE.

FRANK JAMES FARRELL, OF LONDON, ENGLAND.

APPARATUS FOR CLEANING CARPETS, &c.

SPECIFICATION forming part of Letters Patent No. 725,689, dated April 21, 1903.

Application filed May 9, 1902. Serial No. 106,640. (No model.)

To all whom it may concern:

Beitknown that I, FRANK JAMES FARRELL, technical chemist, a subject of the King of Great Britain, residing at 89 Albert Bridge 5 road, London, in the county of Surrey, England, have invented a new and Improved Apparatus for Cleaning Carpets and the Like, (for which I have filed an application for Letters Patent in Great Britain and Ireland, numto bered 20,178, and dated October 9, 1901,) of which the following is a full and complete specification.

This invention relates to an improved apparatus for removing dust from carpets and 15 the like in situ, the object being to obviate the cost, labor, and inconvenience of taking up and relaying carpets when it is necessary

to clean them.

According to the present invention I em-20 ploy one or more revolving brushes carried in a suitable box or screen mounted on wheels or slides, so that it can be moved over the carpet in situ, the said brushes being driven from any convenient source of power. The 25 box or screen containing the brushes is connected by means of a flexible tube with an exhauster and a settling-chamber outside the building in which the carpet to be cleaned is located, the said blower receiving its motion 30 from any suitable source of power.

In the accompanying drawings, which illustrate this invention, Figures 1 and 2, Sheet No. 1, are views in side elevation and plan, respectively, illustrating the brushing part of 35 the apparatus intended to be used for cleansing the carpet in situ in the building; and Fig. 3, Sheet No. 2, is a view in elevation showing the other part of the apparatus intended to be used outside the building, con-40 sisting, essentially, of an exhauster and a dust settling and collecting chamber. Fig. 4 is an end view of one of the rotary brushes.

screen E, showing the grid f.

Referring to Figs. 1 and 2, the brushing apparatus consists, essentially, of a frame A, carrying in suitable bearings axles C C, each carrying a rotary brush D. These brushes are covered by a hood or screen E, in the top 50 of which is an outlet-pipe terminating in a nozzle F, to which a flexible pipe is adapted

to be attached. In this pipe is placed a grid fof suitable mesh to collect pieces of paper and the like and prevent their passage into

the exhauster.

Onto the frame A is adjustably mounted an auxiliary frame A', carrying two sets of rollers a' and a^2 , and in the main frame A is mounted another set of rollers, a, located between the rotary brushes. The auxiliary frame A' 60 is formed as an enveloping dust screen or curtain provided with a rubber or flexible bottom edge a^3 , contacting with the surface of the carpet in order to effectually inclose the portion of carpet under treatment. The aux- 65 iliary frame A' is adjusted by set-screws s working in lugs s' on the frame A. The weight of the apparatus is so placed that the apparatus rests on the front and intermediate sets of rollers a' and a, the rear set a^2 be- 70 ing only brought into contact with the ground for the purpose of turning the apparatus. The adjustment of the auxiliary frame A' with respect to main frame A in the vertical plane by means of the set-screws shown en- 75 ables the wear of the brushes to be compensated for. The apparatus is provided with suitable handles X (shown broken in Figs. 1 and 2) for propelling and manipulating purposes. On the frame A is mounted an elec- 80 tric motor G, which imparts motion to an intermediate shaft H, driving the axles C C of the rotary brushes Deither by belts, as shown in the drawings, or by gearing, the arrangement being such that the brushes rotate in- 85 wardly toward one another. The other part of the apparatus consists, essentially, of an exhauster driven by a suitable motor and of a settling-chamber. A convenient arrangement when current is available within or 90 about the building for driving the motor of the brushing apparatus is that illustrated in Fig. 3 of the accompanying drawings, where-Fig. 5 is a sectional plan view of a part of the | in the exhauster K and the settling-chamber Mare mounted on a self-propelled lorry Y, and 95 the power necessary to drive the exhauster is obtained directly by suitable gearing from the motor of the vehicle.

The inlet k of the exhauster K is connected with the nozzle F of the pipe forming the 100 outlet of the hood or screen E of the brushing apparatus by means of a flexible tube L, and

the outlet or discharge k' is connected with the settling-chamber M. This chamber M consists of a suitably-shaped box having alternately-placed screens m within it, which are adapted to collect and throw down the dust blown into the chamber, suitable doors m' being provided by which dust may be removed from the chamber.

What I claim, and desire to secure by Let-

10 ters Patent, is—

1. The combination, with a main frame, and rotary brushes journaled in the said frame; of a supporting-roller journaled in the said frame between the said brushes, an auxiliary frame supported by the main frame, a supporting-roller a' journaled at the front end of the said auxiliary frame, a turning-roller a' journaled at the rear end of the said auxiliary

frame and normally clear of the carpet, means for adjusting the said rollers a' and a² vertically, a motor supported by the said main frame, and driving mechanism connecting the

said motor with the said brushes, substantially as set forth.

2. The combination, with a hollow main 25 frame, and rotary brushes journaled inside the said frame; of an adjustable auxiliary frame secured around the said main frame and provided with a flexible edge piece for bearing against the carpet, a supporting-roller 30 a journaled in the said main frame between the said brushes, a supporting-roller a' journaled in the front end portion of the said auxiliary frame, a turning-roller a² journaled in the rear portion of the said auxiliary frame 35 and normally clear of the carpet, a motor supported by the said main frame, and driving mechanism connecting the said motor with the said brushes, substantially as set forth.

FRANK JAMES FARRELL.

Witnesses:

C. MILLWARD FLACK, JAMES A. DAVIES.