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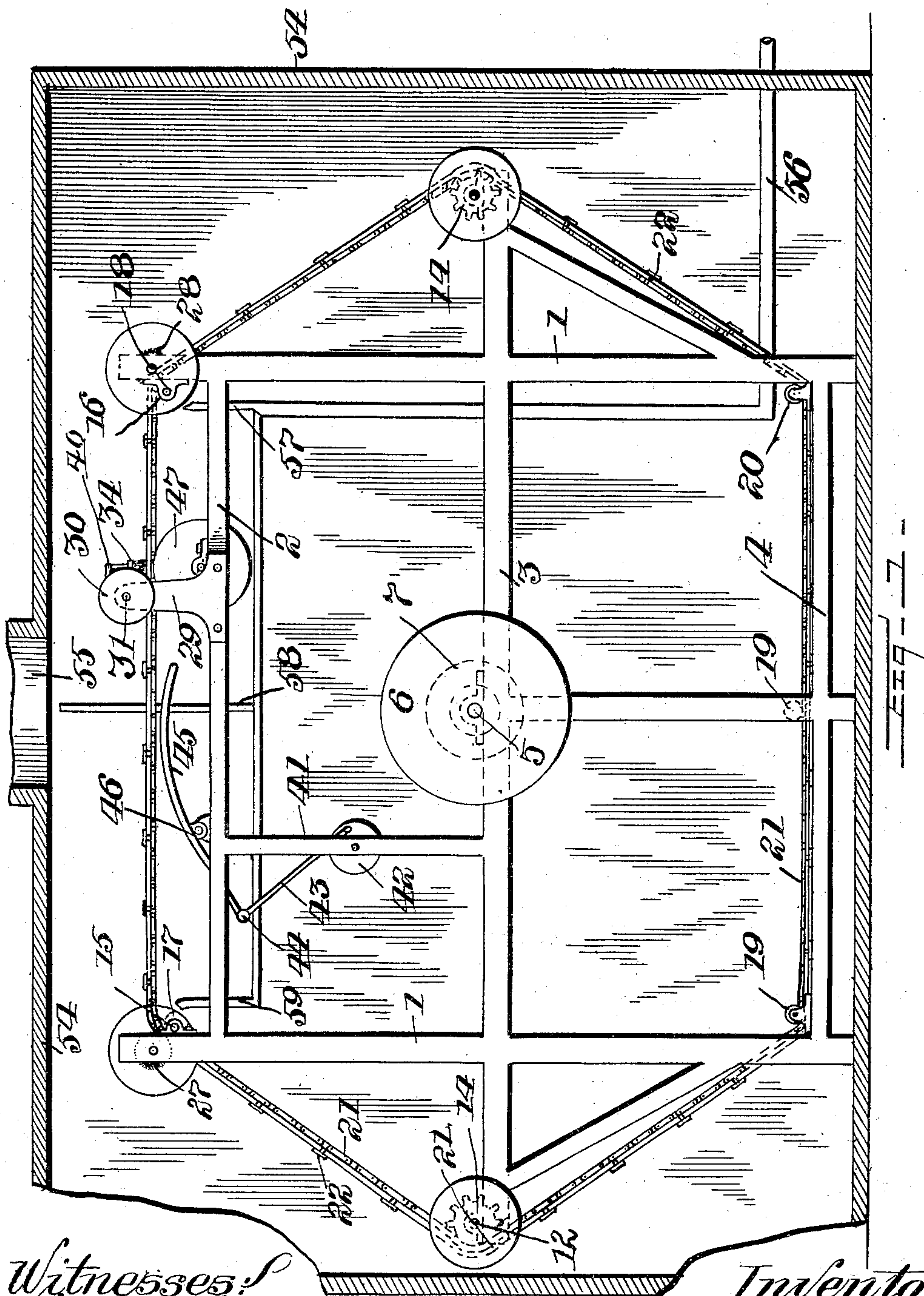
Patented Aug. 12, 1902.

J. C. BRADY.  
CARPET CLEANING MACHINE.

(Application filed Mar. 21, 1902.)

(No Model.)

3 Sheets—Sheet 1.



Witnesses:  
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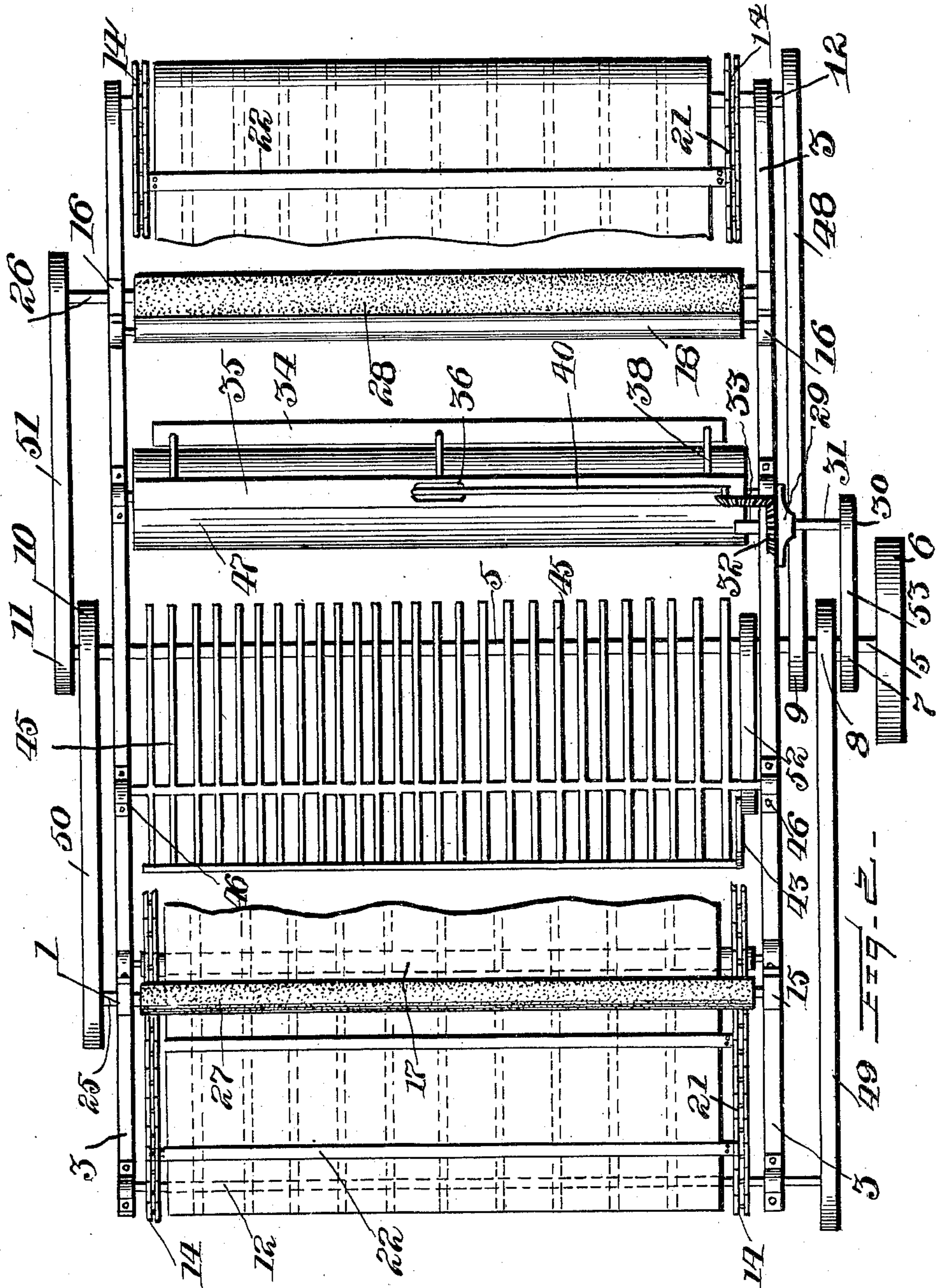
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3 Sheets—Sheet 2.



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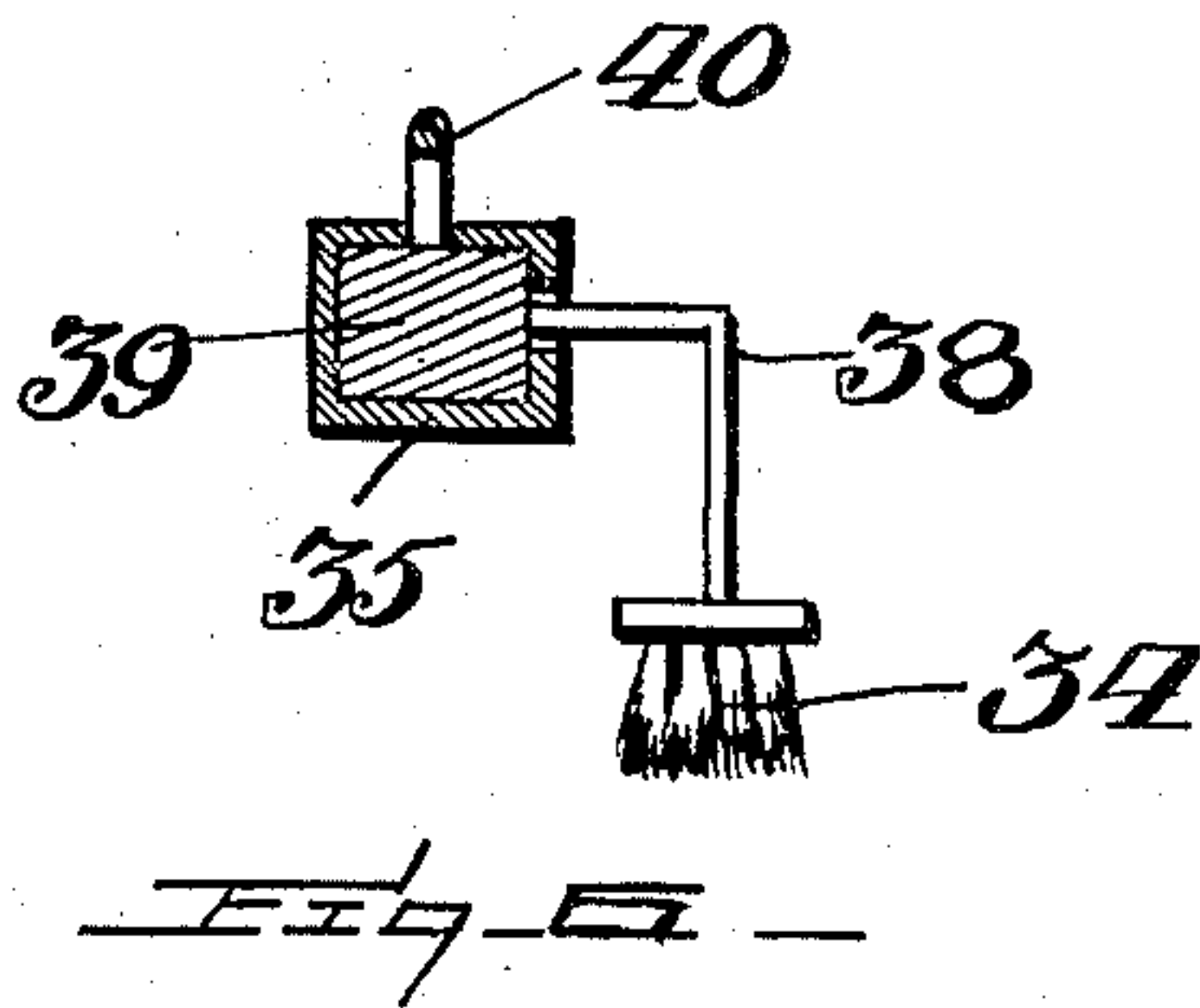
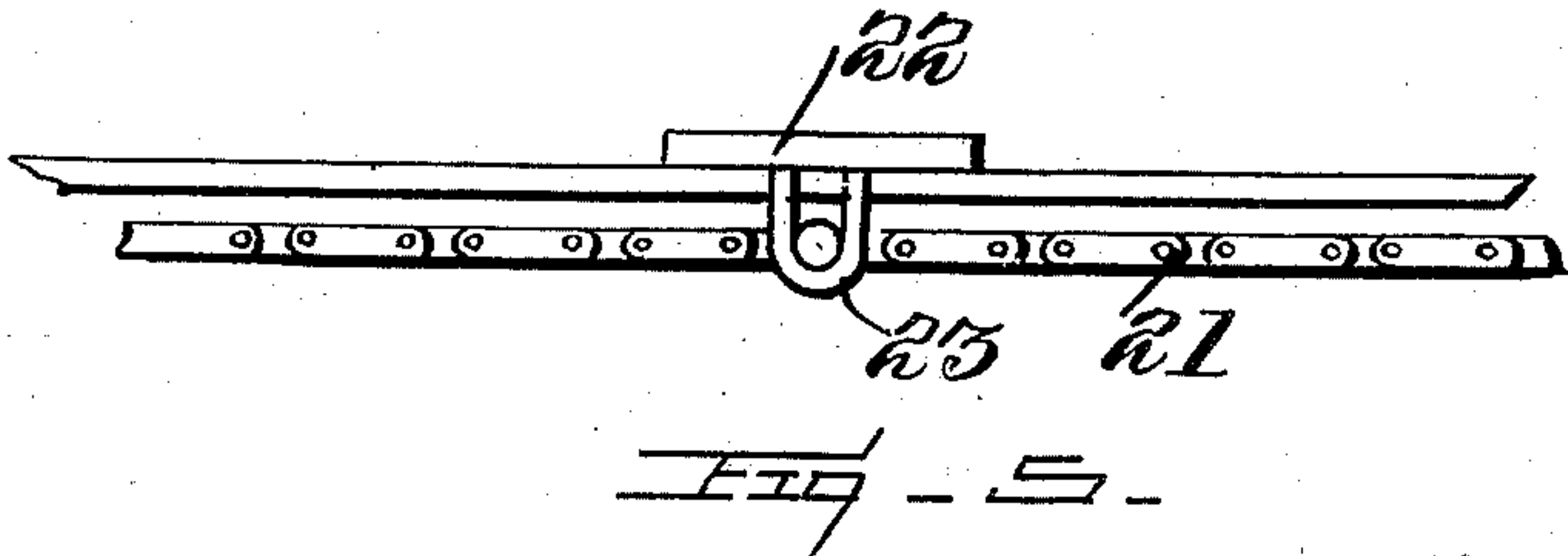
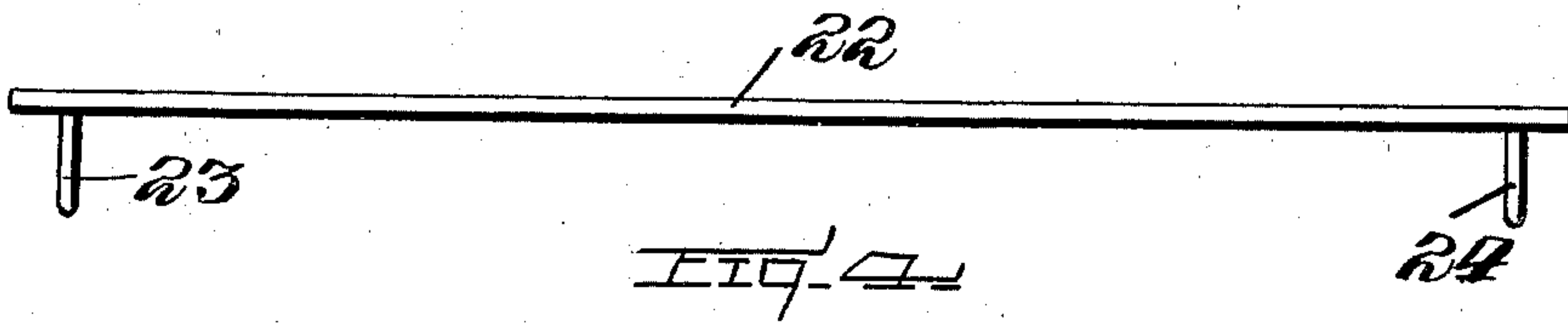
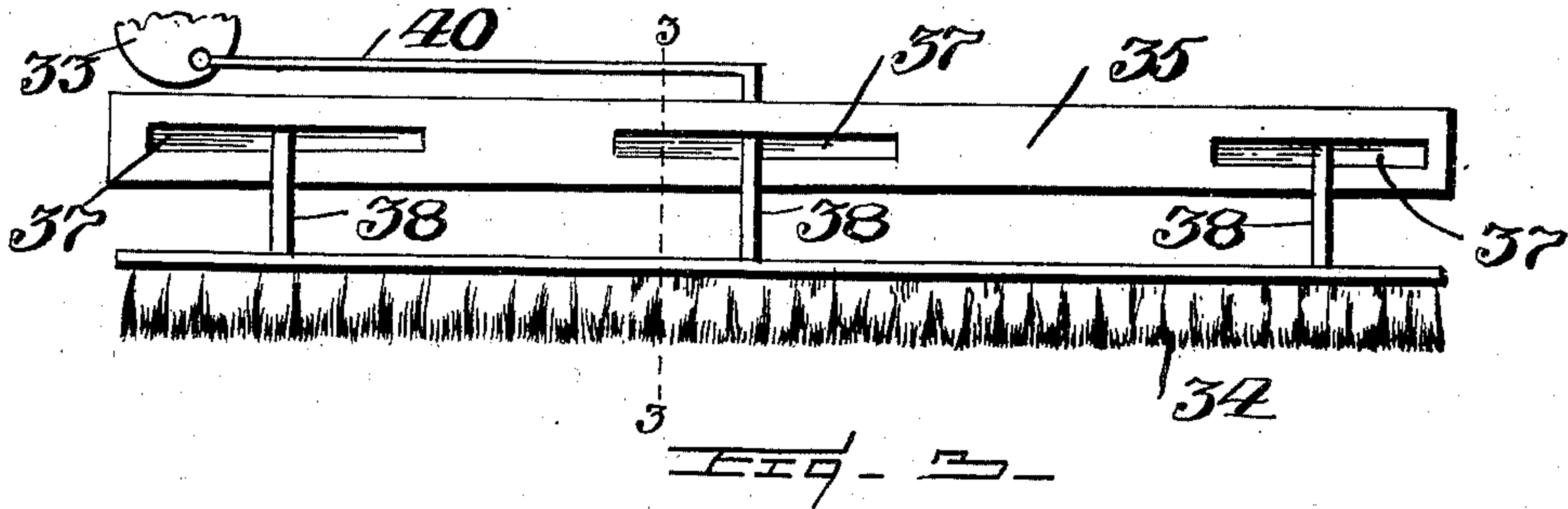
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(No Model.)

3 Sheets—Sheet 3.



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# UNITED STATES PATENT OFFICE.

JAMES C. BRADY, OF PITTSBURG, PENNSYLVANIA.

## CARPET-CLEANING MACHINE.

SPECIFICATION forming part of Letters Patent No. 706,892, dated August 12, 1902.

Application filed March 21, 1902. Serial No. 99,241. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES C. BRADY, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Carpet-Cleaning Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in carpet-cleaning machines, and has for its object to provide an apparatus that will thoroughly cleanse the carpet and accomplish the same in such a  
15 manner as to prevent any wear or tear of the carpet.

Another object of my invention is to provide means whereby the carpet may be carried by the endless chain and passed beneath  
20 a series of brushes and over a series of beaters, whereby the dust and dirt is easily removed from the carpet.

A still further object of my invention is to provide a machine which will be extremely  
25 simple in construction, strong, durable, comparatively inexpensive in manufacture, and highly efficient in its use; furthermore, one wherein the dust may be condensed to a solid form and may be readily removed from the  
30 machine.

With the above and other objects in view the invention consists in the novel construction, combination, and arrangement of parts, to be hereinafter more fully described, and  
35 specifically pointed out in the claims.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate  
40 like parts throughout the several views, in which—

Figure 1 is a side elevation of my machine, showing the casing in longitudinal section. Fig. 2 is a top plan view of my improved machine with a portion of the carpet and the  
45 endless chain broken away. Fig. 3 is a side elevation of the lateral brush. Fig. 4 is a side elevation of one of the retaining-strips. Fig. 5 is an end view of the same, showing the manner in which the carpet is secured to the  
50 endless chain. Fig. 6 is a sectional view on the line 3 3 of Fig. 3.

In the drawings the reference-numeral 1 represents the vertical standards, having interposed therebetween the longitudinal  
55 braces 2, 3, and 4, respectively forming the side framework of my improved machine. These side frames may be suitably braced by any means. (Not shown in the drawings.)

Suitably mounted upon the braces 3 is a central driving-shaft 5, which carries on its outer end driving-pulley 6 and auxiliary pulleys 7, 8, 9, 10, and 11. On the outer end of the braces 3 are suitably mounted shaft 12,  
65 carrying sprocket-wheels 14, and upon the upper ends of the vertical standards 1 are suitably mounted bearings 15 and 16, carrying the rolls 17 and 18, and upon the lower brace 4 of the frame is suitably mounted the  
70 rollers 19 and 20. Upon these rollers and sprocket-wheels 14 is carried an endless sprocket-chain 21, to which is secured the carpet which is to be cleaned. In Figs. 4 and 5 of the drawings I show means for rigidly  
75 securing the carpet to the chain, which consists of a retaining-strip 22, which carries on its outer ends staples 23 and 24, which may be secured by any suitable means or may be made integral therewith.

Suitably mounted within the vertical standards 1 of the frame are horizontal shafts 25 and 26, which carry rotary brushes 27 and 28, respectively. Upon the longitudinal braces 2 of the frame is suitably mounted a bearing  
85 29, which carries an auxiliary pulley 30, mounted upon a shaft 31, and to the inner end of said shaft is secured a beveled gear 32, which meshes with a beveled gear 33, which in turn imparts a lateral movement to  
90 the brush 34, said brush being suitably mounted within a casing 35, said casing having formed therein a recess 36 in the upper face thereof and recesses 37 in the sides thereof for the reception of the arms 38, which carry  
95 the brush 34. Secured in said casing is a block 39, to which are secured arms 38 and a horizontal arm 40, which in turn is connected eccentrically to the rear face of the beveled gear 33.

Mounted upon the vertical brace 41, secured between the braces 2 and 3, is a pulley 42, to which is secured eccentrically the arm 43, to which is pivotally secured at 44 the beaters



45, which are pivotally mounted upon the brace 2, as indicated at 46.

Suitably mounted upon the brace 2 is a drum 47, which carries an endless chain and  
5 carpet directly beneath the lateral brush 34, thereby firmly securing the carpet in such a position where it is readily cleaned by the lateral movement of the brush 34.

The two shafts carrying the sprocket-wheels  
10 on the ends of the braces 3 are driven by means of the belts 48 and 49, and the rotary brushes carried by the vertical standards 1 are driven by belts 50 and 51, the beaters and the lateral brush being driven by means of belts  
15 52 and 53, respectively.

Suitably covering my apparatus is a boxing 54, which carries an outlet or chimney 55. A suitable source of supply for furnishing the current of air is connected to a pipe 56,  
20 said air being carried by means of the pipe 56, which carries outlets 57, 58, and 59, the outlets 57 and 59 being placed in a position beneath the rotary brushes 27 and 28 and the outlet 58 being placed directly beneath the  
25 chimney 55, thereby providing means whereby the dust and dirt may be carried from the machine or condensed.

The operation of my improved machine is as follows: Having placed the carpet upon  
30 the endless chain 21, the carpet is secured in a rigid position by means of the retaining-strips 22, said retaining-strips being held firmly down upon the carpet by means of the staples 23, engaging over the lug carried by  
35 the endless sprocket-wheel 21. The power being applied to the central shaft 5, a rotary movement is given to the endless chains and brushes and a lateral movement to the brush 34, and the beaters 45 are operated by the  
40 pulley 42, all these parts being operated by means of suitable belting connecting the same to the central power-shaft.

The many advantages obtained by the use of my improved machine will be readily ap-  
45 parent from the foregoing description, taken in connection with the accompanying drawings.

It will be noted that various changes may

be made in the details of construction without departing from the general spirit of my 50 invention.

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

1. In a carpet-cleaning machine, a series of 55 beaters operating on the under side of the carpet, means for actuating said beaters, means for conveying the carpet continuously over said beaters, a brush operating on the upper side of the carpet, means for actuating 60 said brush in a lateral direction, and means for continuously moving the carpet, substantially as described.

2. In a carpet-cleaning machine, the combination of a frame having a continuously- 65 operated endless chain, with means for actuating said chain, means for securing the carpet to said endless chain, a series of beaters operating on the under side of the carpet, means for operating said beaters, a casing 70 mounted on the frame, a laterally-movable brush operating in said casing, means for operating said brush across the upper face of the carpet, and a means connecting said last-named means to the means for operating the 75 beaters whereby both may have a simultaneous movement, substantially as described.

3. In a carpet-cleaning machine, the combination with a frame, of a series of beaters pivoted at their ends to said frame, with 80 means for operating said beaters on the under face of the carpet, a stationary casing supported by the frame, a block movable within said casing and carrying depending arms with a brush secured to the lower end 85 of said arms and adapted to move in a lateral direction across the upper face of the carpet, and means for operating said block, substantially as described.

In testimony whereof I affix my signature 90 in the presence of two witnesses.

JAMES C. BRADY.

Witnesses:

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E. E. POTTER.