

No. 628,768.

Patented July 11, 1899.

B. A. CORRELL.  
CARPET CLEANER.

(Application filed Apr. 21, 1899.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.

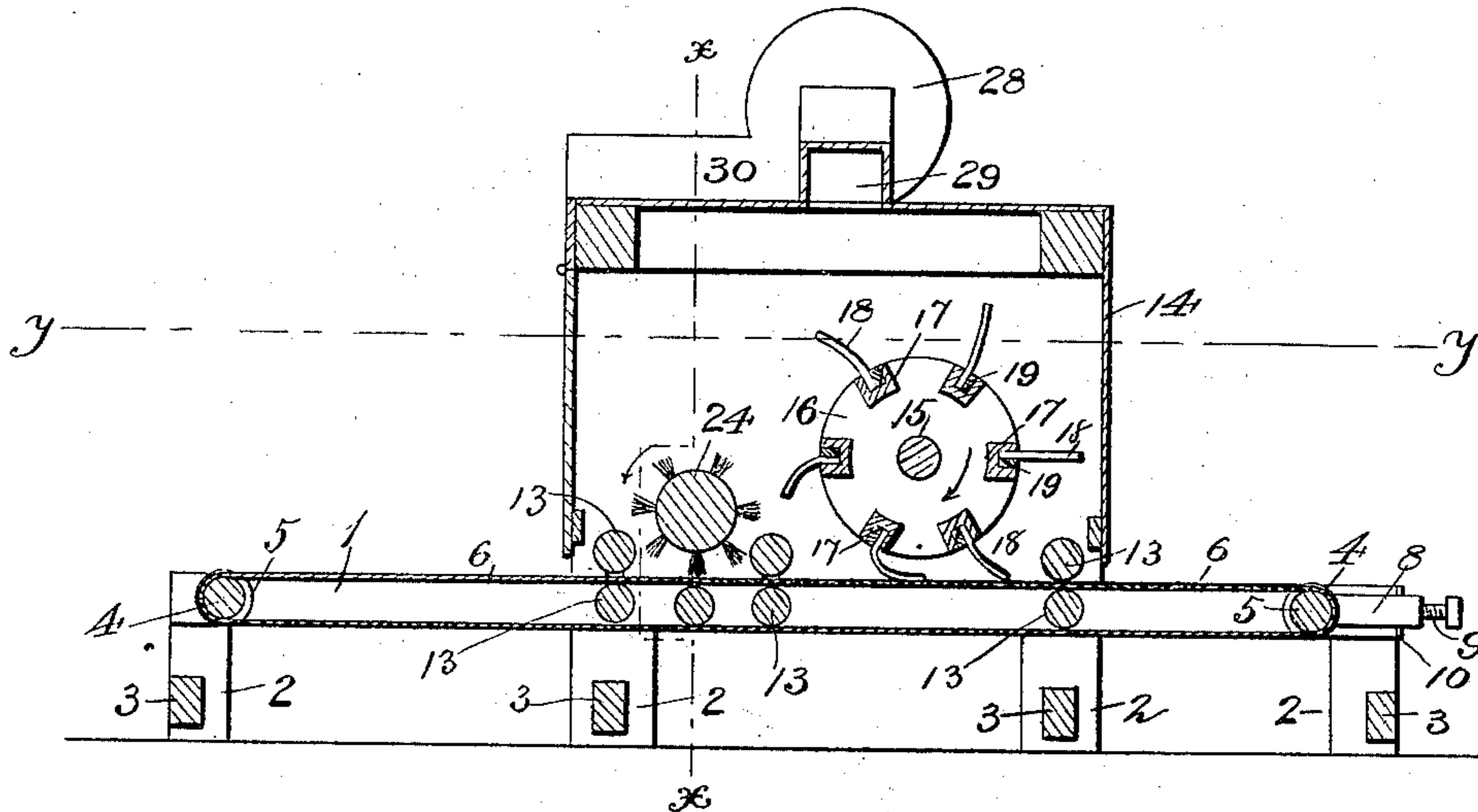
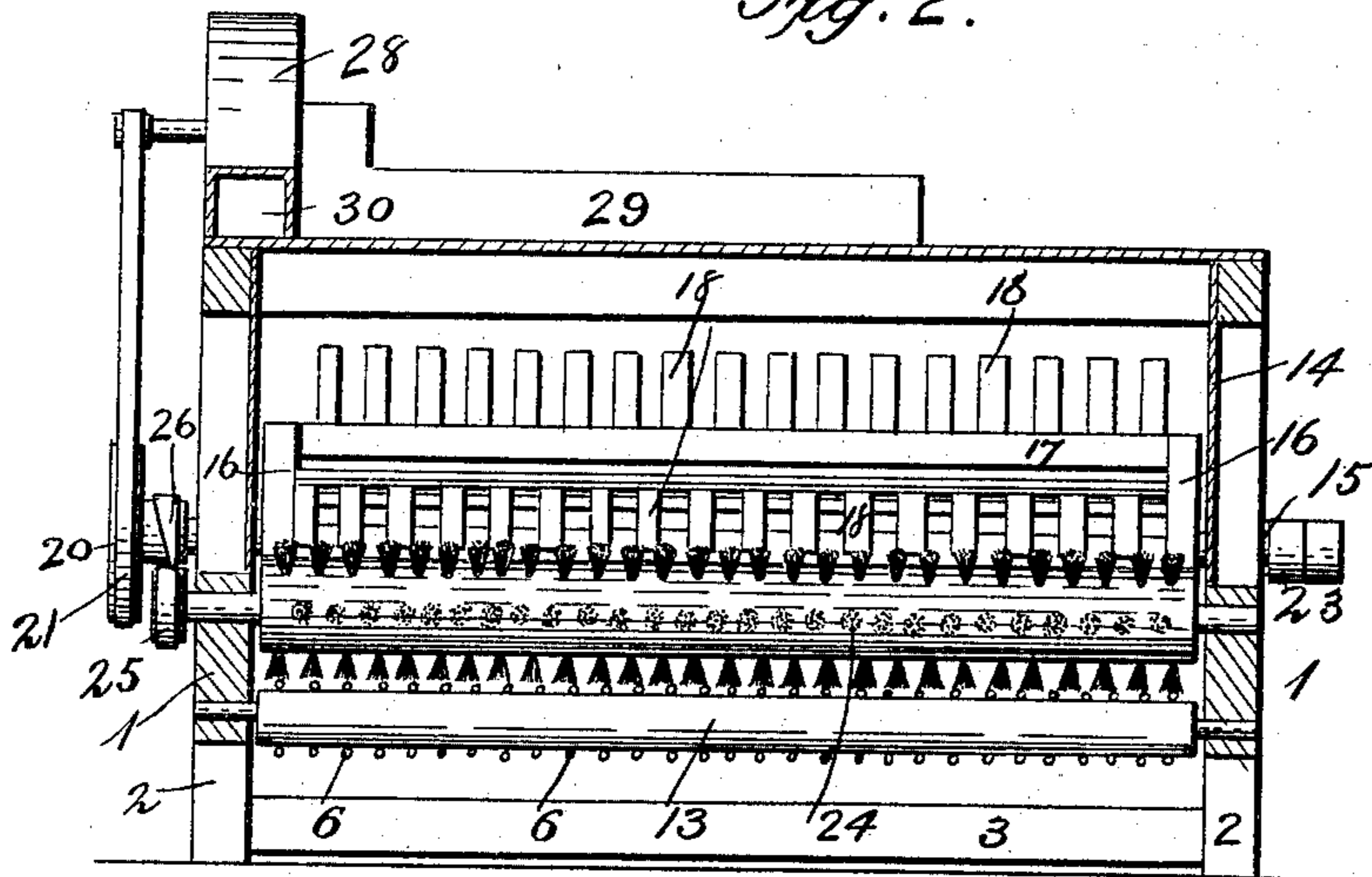


Fig. 2.



WITNESSES:

*Frazer L. Ourand*  
*Jo. L. Coombs*

INVENTOR.

*Barnard A. Correll.*

BY

*Lawrence J. Co.,*  
ATTORNEYS.

No. 628,768.

Patented July 11, 1899.

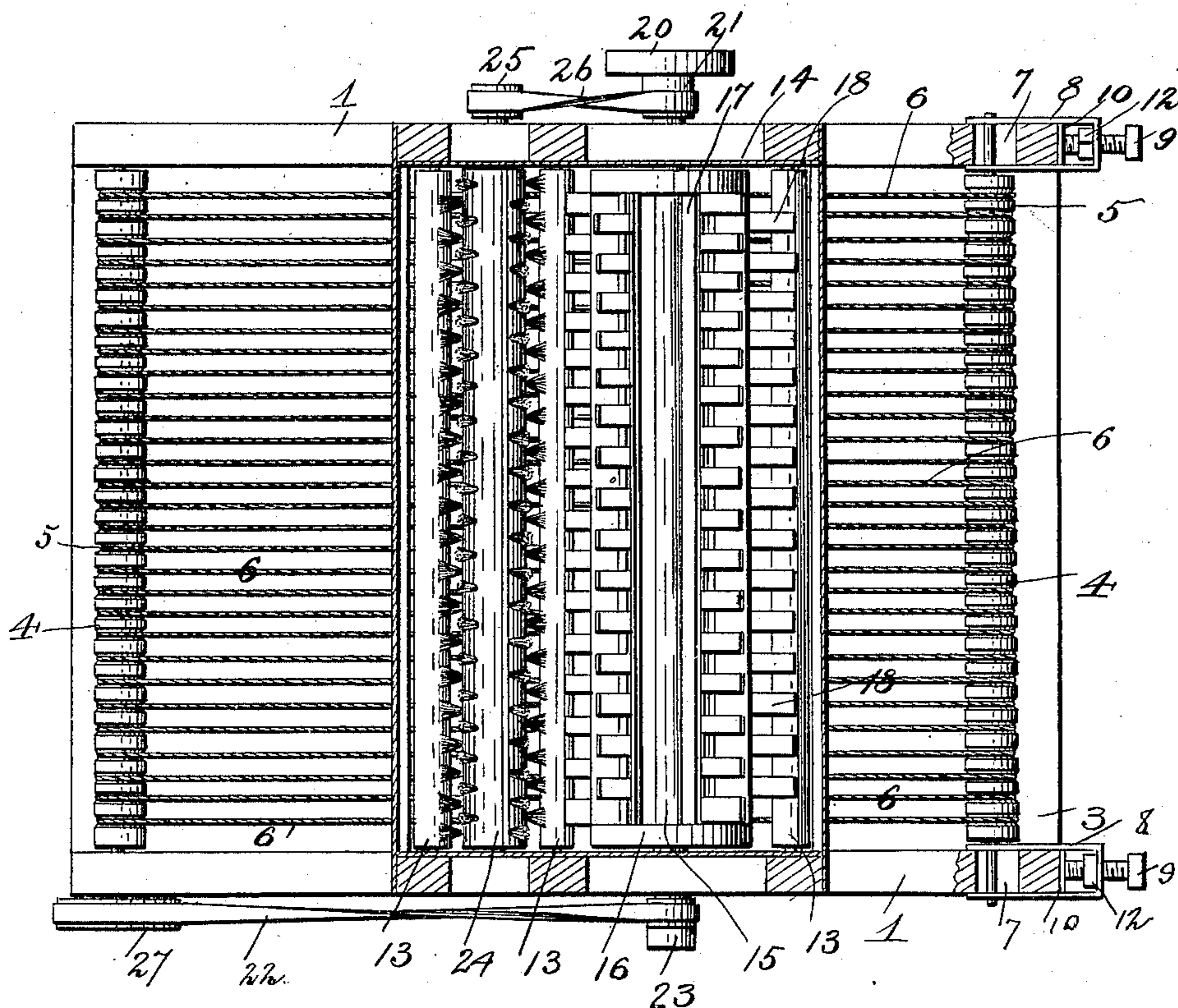
**B. A. CORRELL.**  
**CARPET CLEANER.**

(Application filed Apr. 21, 1899.)

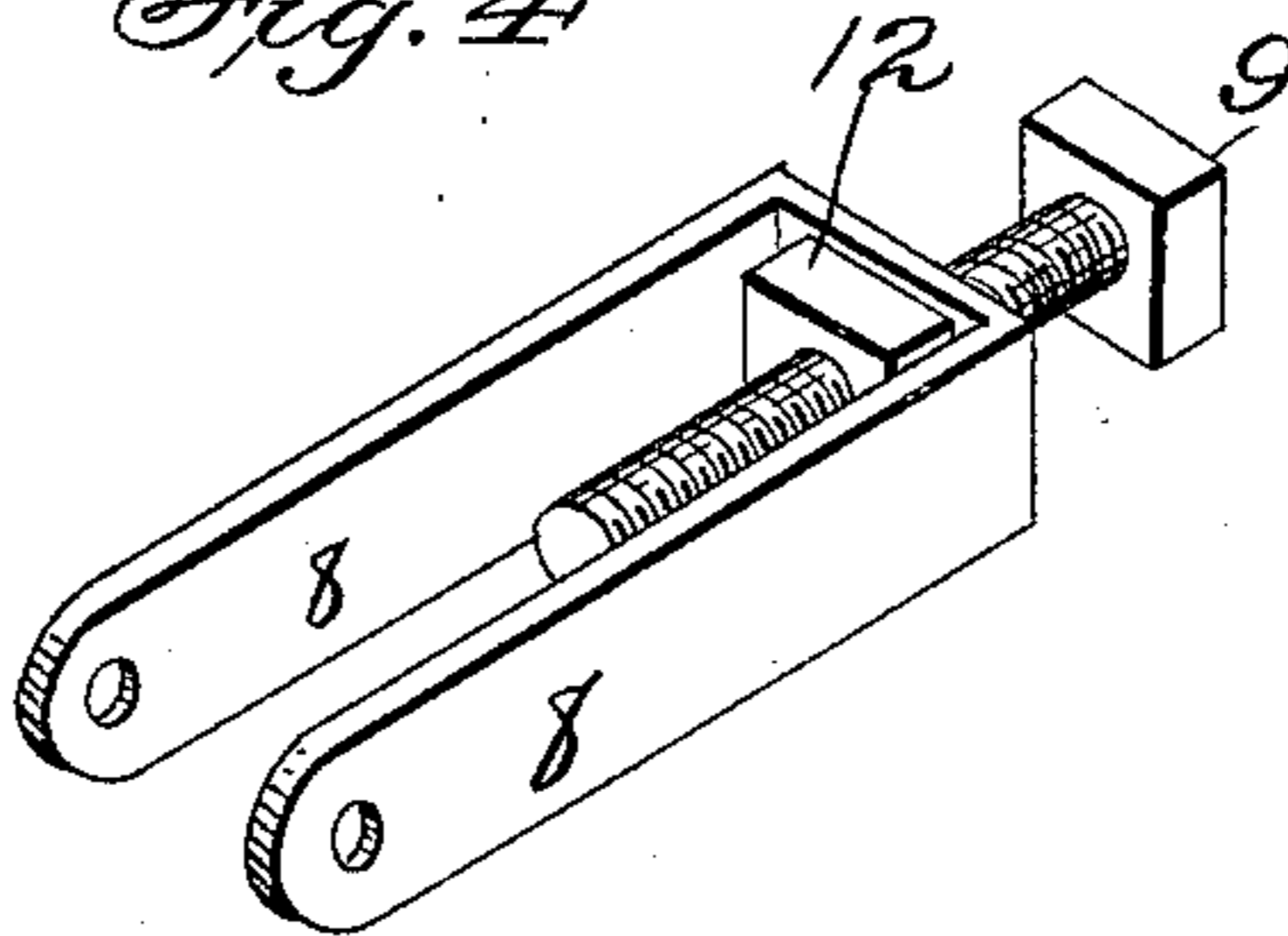
(No Model.)

2 Sheets—Sheet 2.

*Fig. 3.*



*Fig. 4.*



WITNESSES:  
*Frank L. Ourand.*  
*Jo. L. Coombs*

INVENTOR:  
*Barnard A. Correll*  
BY  
*Lawson & Co.*  
ATTORNEYS

# UNITED STATES PATENT OFFICE.

BANERD A. CORRELL, OF YORK, PENNSYLVANIA, ASSIGNOR OF ONE-HALF  
TO CHARLES Y. EMERSON, OF SAME PLACE.

## CARPET-CLEANER.

SPECIFICATION forming part of Letters Patent No. 628,768, dated July 11, 1899.

Application filed April 21, 1899. Serial No. 713,944. (No model.)

*To all whom it may concern:*

Be it known that I, BANERD A. CORRELL, a citizen of the United States, residing at York, in the county of York and State of Pennsylvania, have invented new and useful Improvements in Carpet-Cleaners, of which the following is a specification.

My invention relates to carpet-cleaning machines in which the carpet to be cleaned is caused to pass under a rotating beater and a rotating brush, whereby the dust and dirt is beaten out and swept therefrom and subsequently removed by a pneumatic conveyer.

The object of the invention is to provide an improved machine of the above character which is simple and economical in construction and which will efficiently perform the intended purpose.

The invention consists in the novel construction and combination of parts herein-after fully described and claimed.

In the accompanying drawings, Figure 1 is a central longitudinal section of a carpet-cleaning machine constructed in accordance with my invention. Fig. 2 is a transverse sectional view on the line  $x x$ , Fig. 1. Fig. 3 is horizontal section on the line  $y y$ , Fig. 1. Fig. 4 is a detail view of one of the adjustable yokes for regulating the tension of the ropes or cords which feed the carpet to the beater, roller, and brush.

In the said drawings the reference-numeral 1 designates two side bars supported by legs 2, connected together by transverse bars 3. Journaled to said side bars, near each end thereof, is a roller 4, formed with a series of peripheral grooves 5. Endless ropes or cords 6 pass around these rollers and engage with the said grooves. The front roller 4 has its journals passing through elongated slots 7 in the said side bars, which journals also pass through holes near the ends of adjustable U-shaped yokes 8, which embrace the outer and inner sides of the front ends of said side bars. Passing through the outer ends of said yokes are set-screws 9, the inner ends of which abut against metal plates 10, secured to the ends of said bars. These screws are

provided with nuts 12, located between the outer ends of the yokes and plates 10. The said side bars, intermediate their ends, are provided with a series of rollers 13, arranged in pairs, between which the upper runs of the ropes or cords pass. Located centrally on said side bars is a housing 14, open at the lower end, and the rear side of which is hinged to the upper end thereof, so that by raising the same access may be had to the interior. Located in this housing is a beater consisting of a shaft 15, journaled in the sides of the housing; end disks 16, secured thereto; transverse bars 17, arranged in pairs, secured to said disks, with a space between the same; a number of arms 18, of leather or other material, having their inner ends located between the said bars, and transverse beveled or wedge-shaped strips 19, located between the bars 16, for holding the beater-arms 18 in place. These bars 19 are held in place by frictional contact only, so that they can be removed when necessary or desirable. The said shaft is provided with a large pulley 20 and a small pulley 21 at one end and with a small pulley 23 at the other end. Located in said housing in rear of the beater is a rotatable brush 24, journaled in the sides of the housing and provided at one end with a pulley 25, connected by a crossed belt 26 with the pulley 21. The pulley 23 is connected by a crossed belt 22 with a pulley 27, secured to one end of the rear grooved roller, around which the cords or ropes pass.

The numeral 28 designates a suction-fan located on top of the housing at one side thereof and communicates with the latter by a laterally-extending trunk 29. Said fan also communicates with the atmosphere by an outlet-pipe 30 and is driven by a belt connected with the pulley 20.

The operation is as follows: The machine is set in motion by any suitable motor connected with the shaft of the beater. The carpet to be cleaned is fed into the machine at the front thereof and will be carried under the beater and brush by means of the rollers and ropes or cords. While thus traveling,

the arms of the rotating beater will strike and beat the carpet, loosening the dust and dirt, which will be swept upwardly by the rotating brush and will be conveyed out of  
5 the housing by the suction-fan.

Having thus fully described my invention, what I claim is—

1. In a carpet-cleaning machine, the combination with the side bars, the grooved rollers, the intermediate rollers arranged in pairs,  
10 the ropes or cords, and the housing, of the beater comprising the rotatable shaft, the disks secured thereto, the transverse bars arranged in pairs, the beater-arms, the wedge-  
15 shaped strips, the rotatable brush located in said housing in rear of the beater and the pneumatic conveyer communicating with said housing and means, substantially as de-

scribed for operating said rollers, beater, brush and conveyer. 20

2. In a carpet-cleaning machine of the character described, the combination with the side bars, the grooved rollers one of which is journaled in elongated slots therein and the ropes or cords, of the yokes embracing one end of  
25 said side bars, the set-screws, the end plates and the nuts with which said screws engage, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing wit-  
30 nesses.

BANERD A. CORRELL.

Witnesses:

W. A. MILLER,

WM. F. RAMSAY.