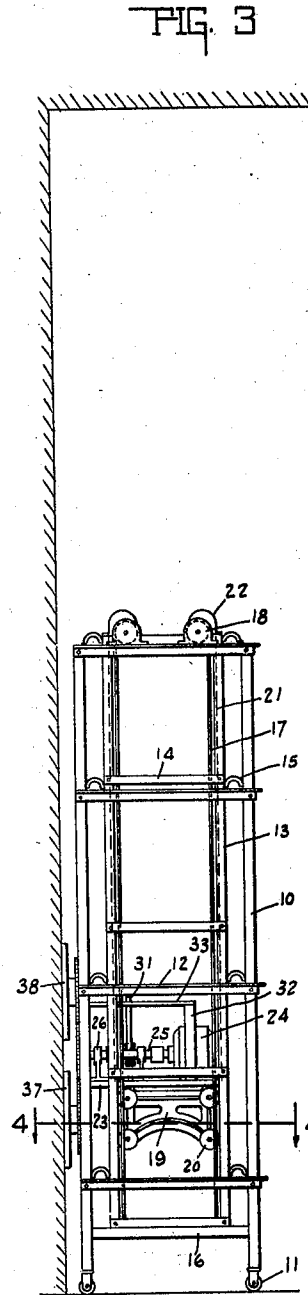
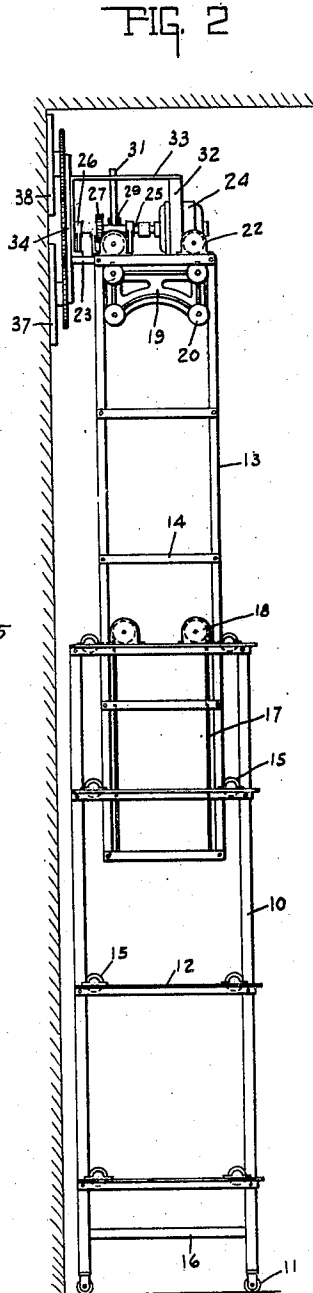
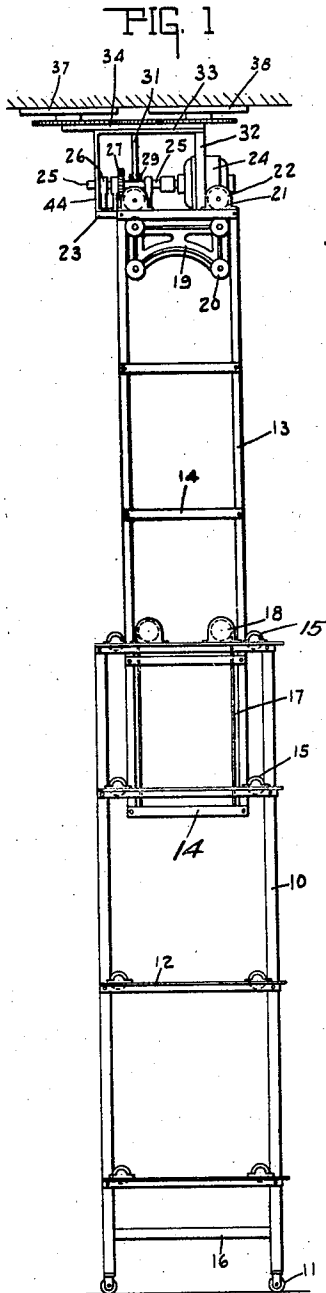


C. S. WOODS.
WALL CLEANING MACHINE.
APPLICATION FILED JUNE 9, 1919.

Patented June 8, 1920.
2 SHEETS—SHEET 1.

1,342,488.



INVENTOR.
CHARLES S. WOODS

BY

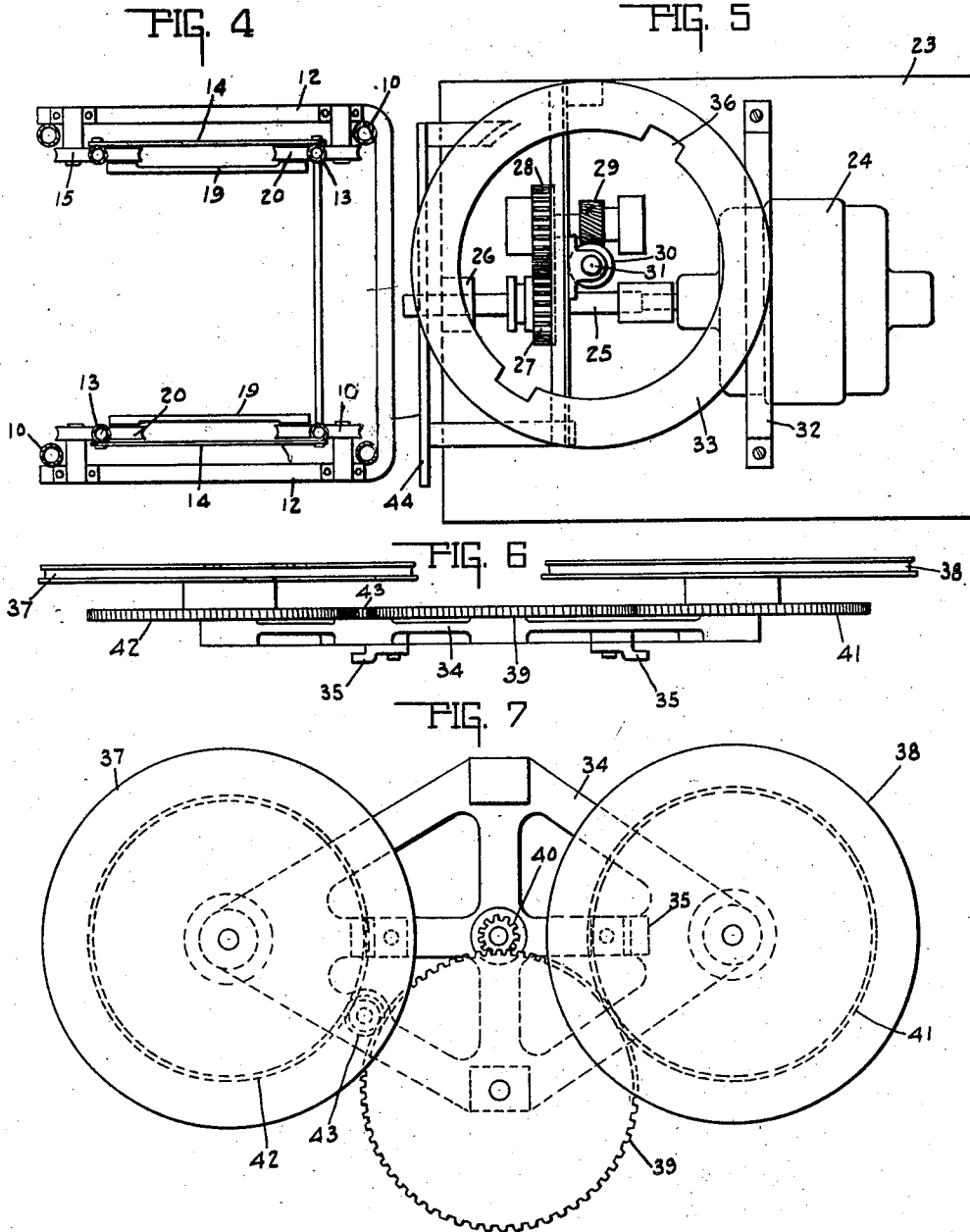
Lockwood & Lockwood
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UNITED STATES PATENT OFFICE.

CHARLES S. WOODS, OF INDIANAPOLIS, INDIANA.

WALL-CLEANING MACHINE.

1,342,488.

Specification of Letters Patent.

Patented June 8, 1920.

Application filed June 9, 1919. Serial No. 302,659.

To all whom it may concern:

Be it known that I, CHARLES S. WOODS, a citizen of the United States, and a resident of Indianapolis, county of Marion, and State of Indiana, have invented a certain new and useful Wall-Cleaning Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like numerals refer to like parts.

This invention relates to a device for mechanically cleaning walls and ceilings, and is especially adapted for use in the interior cleaning of buildings.

The object of the invention is to construct and provide a simple and efficient device for rapidly cleaning the walls and ceilings mechanically.

In the drawings, which are made a part of this application, Figure 1 is a side elevation of the machine showing it in ceiling cleaning position. Fig. 2 is the same as Fig. 1 showing it in extended position for wall cleaning. Fig. 3 is a side elevation showing the machine in lowered position for wall cleaning. Fig. 4 is a cross section taken on the line 4-4 of Fig. 3. Fig. 5 is a plan view looking down with the cleaning attachment removed. Fig. 6 is an enlarged view of the side elevation of the cleaning attachment. Fig. 7 is a plan view of the cleaning attachment.

In the drawings there is shown a telescoping tower having a base section composed of uprights 10 portably mounted on the rollers 11 and having cross members 12 joining and bracing said uprights 10 on three sides of the base section.

There is an adjusting section having uprights 13 and cross members 14 mounted on three sides thereof for bracing said uprights. The fourth side of the tower is left clear as shown in Fig. 4. Mounted adjacent the uprights 10 on the cross member 12 there are a plurality of rollers 15 which engage and guide the uprights 13 for controlling their sliding movement within the base section so that the adjusting section is slidable therein. The platform 16 at the bottom of the base section stops and supports the adjustable section when in its lowered position, as shown in Fig. 3. Connected with the lower cross member 14 there are cords 17 connected to the spring pulleys 18, which are mounted on the upper cross member of the base section

for supporting and holding the adjustable section in position. The uprights 13 form tracks upon which the slidable supporting frame 19 is adapted to ride through the medium of the rollers 20. It will therefore be seen from the foregoing description that the adjustable section may readily be adjusted to any position in the base section, and the supporting frame 19 may be adjusted to any position in the adjustable section through the medium of the cords 21 connected with the spring pulleys 22, whereby the various heights of the ceiling may be engaged.

Mounted on the frame 19 there is a platform 23 on which is secured an electrically driven motor 24, which drives a shaft 25 supported in the bearings 26 for propelling the cleaning mechanism in its vertical position, as shown in Fig. 2. The shaft 25 is provided with a gear 27 in position to mesh with the gear 28, which drives the worm gear 29 which meshes with the roller 30; the gears 28 and 29 being mounted on a stub shaft, as shown in Fig. 5. The roller 30 is mounted on the shaft 31 which extends directly upwardly to engage and drive the cleaning mechanism in a horizontal position for cleaning a ceiling, as shown in Fig. 1.

Mounted on the standards 32 there is an attaching plate 33 upon which the base of the cleaning mechanism is removably secured. The cleaning mechanism is composed of a base frame 34 shown in Fig. 7 which has the fingers 35 extending laterally from the bottom thereof adapted to pass through the slots 36 in the attaching plate 33 and secure the frame thereon when turned out of registration with said slots. On one end of the frame there is a rotary cleaning disk 37 and on the opposite end there is a rotary drying disk 38, which are driven by the gear 39 which meshes with, and is driven by, a gear 40 on the shaft 31. The gear 39 meshes with and drives a gear 41 on the disk 38, and the gear 42 on the disk 37 through the medium of the pinion 43, so that both disks will be driven in the same direction. The ends of the shafts 25 and 31 are slotted so as to engage a key extending from the gear 40. Mounted on the side of the platform 23 there is a supporting plate 44 which is similar to and serves the same purpose as the plate 33, when the cleaning mechanism is mounted on the side. By means of this construction the cleaning mechanism may be readily removed from the

platform 23 and mounted on the side plate 44, or vice versa, and the cleaning disk 37 will clean the walls by means of a brush or other suitable medium, while the disk 38 will wipe off or dry the surface by means of any suitable covering, both of said disks being rapidly revolved by the motor, and being so manipulated that the wiping disk will follow in the path of the cleaning disk.

10 The invention claimed is:

1. An apparatus for cleaning walls and the like, including a telescoping tower, a plurality of rotary cleaning disks for engaging and cleaning the surface of said walls, a platform slidably mounted in said tower for supporting and carrying said cleaning disks arranged so as to be lowered to the bottom of said tower for permitting said disks to engage and clean the lower portion of said walls, and a motor mounted on said platform for driving and rotating said disks.

2. An apparatus for cleaning walls and the like, including an adjustable tower, a support adjustable on said tower so as to permit its being lowered to the bottom thereof, a vertical and a horizontal mount on said support, cleaning means adapted to be interchangeably secured on said mounts for cleaning either a vertical or a horizontal surface, and mechanical means for driving said cleaning means.

3. Apparatus for cleaning walls and the like including an adjustable support, a vertical and a horizontal mount on said sup-

port, cleaning means adapted to be interchangeably secured on said mounts for cleaning either a vertical or a horizontal surface, and mechanical means for driving said cleaning means.

4. An apparatus for cleaning walls and the like, including a telescoping frame having one side thereof free from obstructions, an adjustable support mounted in said frame, said support being provided with means for engaging the uprights of said frame and permitting the lowering of said support to the bottom thereof, a vertical and a horizontal mount on said support, cleaning means adapted to be interchangeably secured on said mounts for cleaning either a vertical or a horizontal surface, and mechanical means for driving said cleaning means, whereby the lower portion of the wall may be cleaned when said support is lowered to the bottom of said frame.

5. A cleaning device including an adjustable tower, a platform carried within said tower, a vertical and a horizontal support on said platform, and a cleaning means having a plurality of disks adapted to be removably mounted on said supports, and mechanical means mounted on said platform for driving said disks in either their vertical or horizontal position, whereby they may engage and clean a vertical or horizontal wall.

In witness whereof, I have hereunto affixed my signature.

CHARLES S. WOODS.