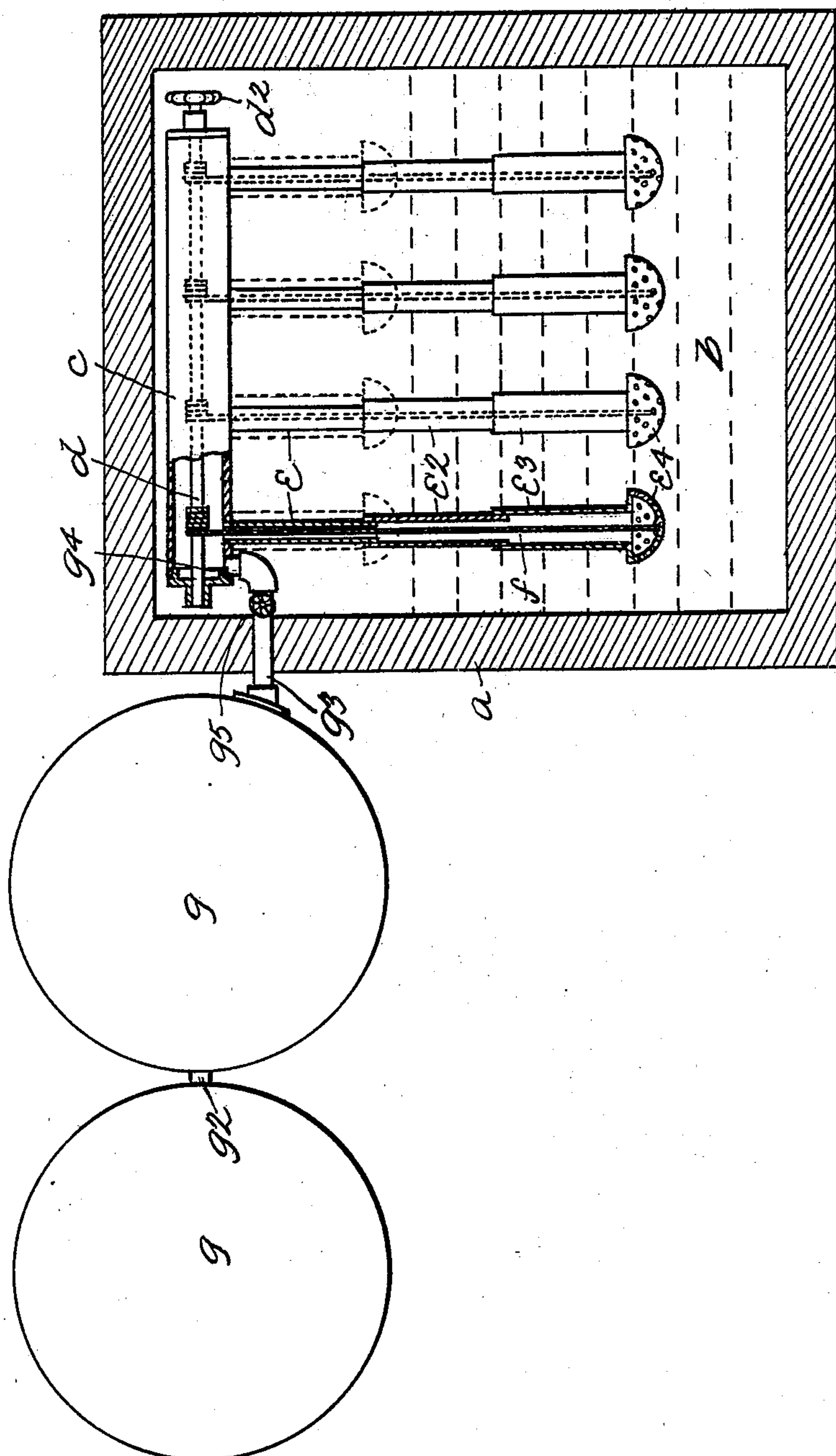


No. 722,768.

PATENTED MAR. 17, 1903.

G. SWENSON.
FLOOR CLEANING APPARATUS.
APPLICATION FILED DEC. 3, 1902.

NO MODEL.



WITNESSES

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UNITED STATES PATENT OFFICE.

GORAN SWENSON, OF NEW YORK, N. Y.

FLOOR-CLEANING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 722,768, dated March 17, 1903.

Application filed December 3, 1902. Serial No. 133,653. (No model.)

To all whom it may concern:

Be it known that I, GORAN SWENSON, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Floor-Cleaning Apparatus, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide an improved apparatus for cleaning the floors of halls and other rooms or compartments; and with this and other objects in view the invention consists in an apparatus of the class specified constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, said drawing being a plan view of the apparatus which I employ, part thereof being in section.

In the drawing forming part of this specification I have shown at *a* a building in which is a room, hall, or compartment *b*, at one side or end of which is placed a tubular casing *c*, which rests upon or is suitably supported on the floor, and through the casing *c* is passed a shaft *d*, provided at one end with a hand-wheel *d*² or other suitable device by which it may be turned.

Secured to the casing *d* are a plurality of tubes composed of separate telescopic sections *e*, *e*², and *e*³, and the outer section *e*³ is provided with a perforated head *e*⁴, and the inner section *e*² is secured to the casing *c*. Each of the telescopic tubes is also provided with a cord or other flexible device *f*, one end of which is secured to the shaft *d* and the other to the outer end of the outer telescopic section, and by turning the shaft *d* the cord or other flexible device *f* is wound on said shaft and the tubes are telescoped, as shown in dotted lines.

In the drawing forming part of this specification I have shown four of the telescopic tubes, each of which is composed of three separate sections; but it will be understood that these tubes may be of any desired number according to the size of the hall, room, or compartment and may consist of any preferred number of sections or parts. I also provide

one or more tanks *g*, which are filled with air under high pressure, and these tanks, if two or more are provided, are placed in communication, as shown at *g*², and one of said tanks is provided with a pipe *g*³, which passes into the hall, room, or other compartment, and is connected with the casing *c*, as shown at *g*⁴, and said pipe *g*³ is also provided with a valve *g*⁵.

The tank or tanks *g* may be filled with air under pressure in any desired manner, and one or more of said tanks are employed, and the operation will be readily understood from the foregoing description when taken in connection with the accompanying drawing and the following statement thereof.

In practice the tubes connected with the casing *c* are telescoped, as shown in dotted lines, and the valve *g*⁵ is then opened, and the air is allowed to pass into the casing *c*. The air from the casing *c* passes into the telescopic tubes and out through the perforated heads *e*⁴ thereof, and dust, dirt, and other substances on the floor of the hall, room, or other compartment are blown to the side of the room opposite the casing *c* and may be taken up and removed in the usual or any preferred manner. In this operation the tubes connected with the casing *c* are gradually extended and lengthened by the force of the air therein until they reach the limit of their extension, as shown in the drawing. Any suitable means may be provided for preventing the separation of the separate sections of the telescopic tubes, and the cord or other flexible device *f* may be made to serve for this purpose, and my invention is not limited to the details of construction herein described, as many changes therein and modifications thereof may be made without departing from the spirit of my invention or sacrificing its advantages.

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

1. An apparatus for cleaning the floor of a compartment comprising a casing at one side thereof, collapsible tubes composed of separate sections and connected with said casing and ranging transversely of the floor of the compartment, and the outer section being provided at its outer end with a perforated head, devices for collapsing said tubes, and

means for supplying air under pressure to said casing, substantially as shown and described.

2. In an apparatus for cleaning the floor
5 of a compartment, a casing arranged at one side thereof, a shaft passing longitudinally through said casing, sectional and collapsible tubes connected with said casing and provided at their outer ends with a perforated head, a
10 flexible device connected with the outer end of the outer section of each of said collapsible tubes and passing therethrough and con-

nected with said shaft and means for supplying air under pressure to said casing, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 29th day of November, 1902.

GORAN SWENSON.

Witnesses:

F. A. STEWART,
C. E. MULREANY.