

(No Model.)

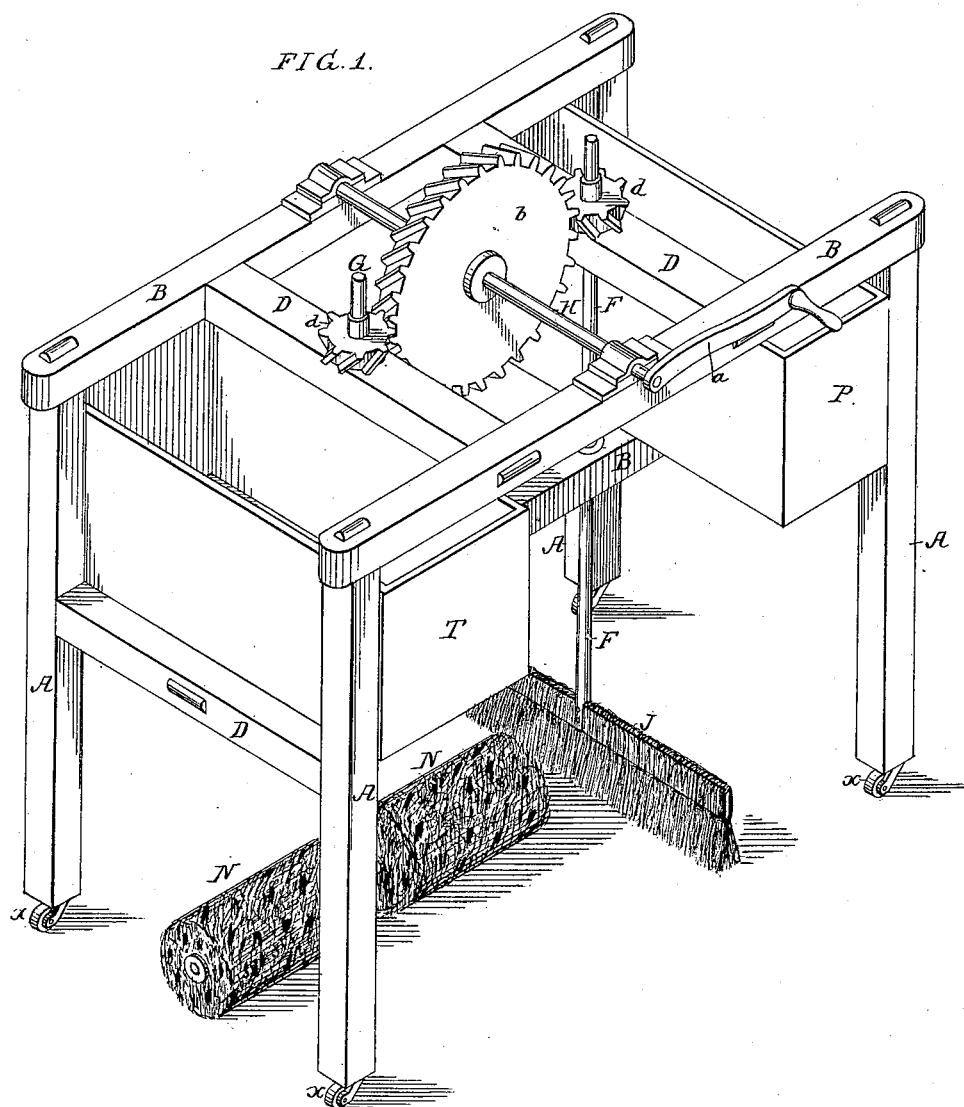
2 Sheets—Sheet 1.

B. FERNANDEZ Y RABEIRO.

FLOOR WASHER.

No. 343,019.

Patented June 1, 1886.



Witnesses:
John M. Clayton
Harry Drury

Inventor:
Bernardo F. y. Rabeiro
by his Attorneys
Hosmer & Sons

(No Model.)

2 Sheets—Sheet 2.

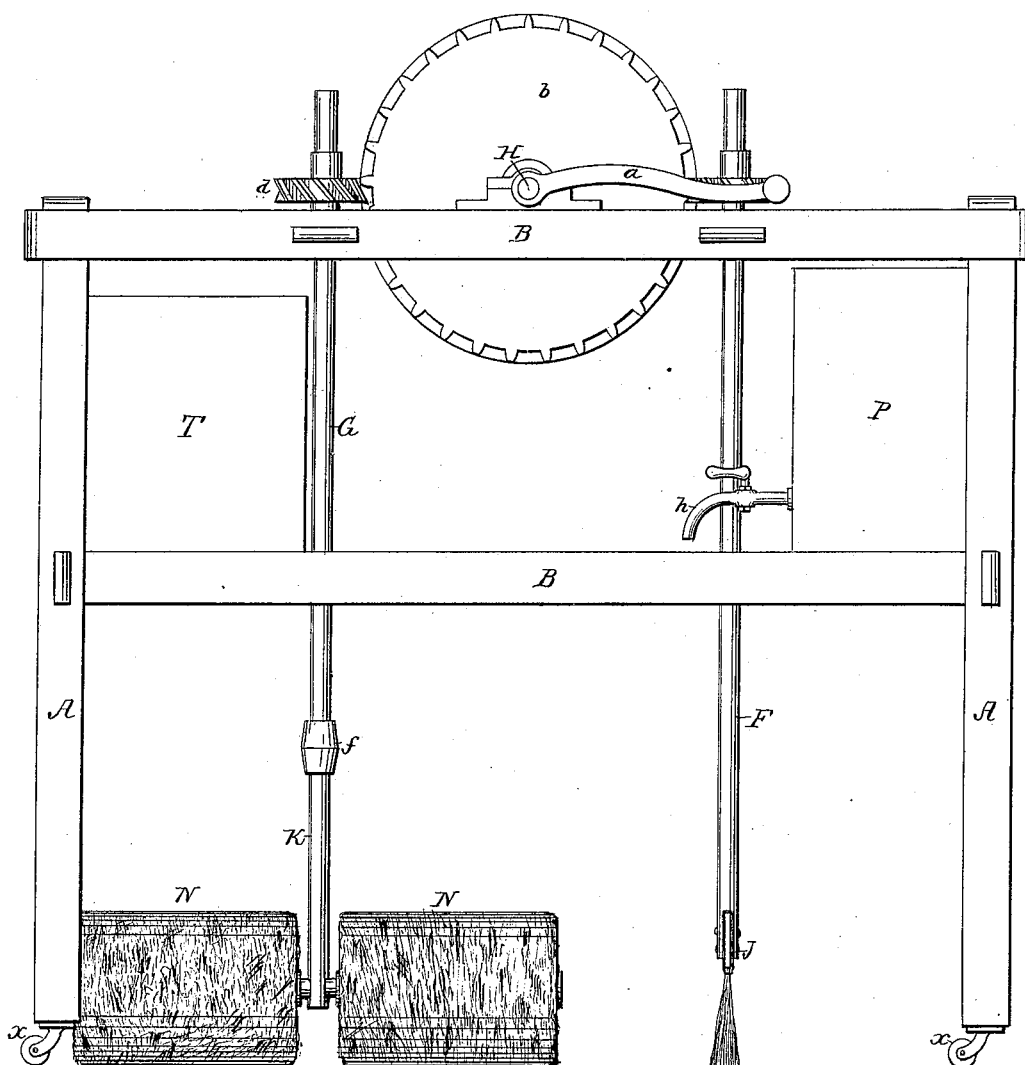
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FIG. 2.



Witnesses:
John M. Clayton
Harry Drury

Inventor:
Bernardo F. y. Rabeiro
by his Attys.
Horn & Sons

UNITED STATES PATENT OFFICE.

BERNARDO FERNANDEZ Y RABEIRO, OF HAVANA, CUBA.

FLOOR-WASHER.

SPECIFICATION forming part of Letters Patent No. 343,019, dated June 1, 1886.

Application filed September 1, 1884. Serial No. 141,972. (No model.)

To all whom it may concern:

Be it known that I, BERNARDO FERNANDEZ Y RABEIRO, a subject of the King of Spain, and a resident of Havana, Island of Cuba, have invented certain Improvements in Floor-Washers, of which the following is a specification.

The object of my invention is to construct a device for readily scrubbing and drying the floors of rooms or apartments; and this object I attain in the following manner, reference being had to the accompanying drawings, in which—

Figure 1, Sheet 1, is a perspective view of my improved floor-cleaner, and Fig. 2, Sheet 2, a side view of the same on a longer scale.

The frame of the machine consists of corner-posts A, longitudinal bars B, and transverse bars D, all fitted and secured together so as to form a stiff and well-braced frame, the posts A being mounted upon caster-wheels *a*, so that the frame can be moved about in any direction over the floor. In the bars D and B are formed bearings for two vertical shafts, F and G, and on the top bars, B, are bearings for a central horizontal shaft, H, which is furnished with a suitable operating-crank, *a*, and carries a wheel, *b*, with inclined teeth, the latter engaging with similar inclined teeth on a wheel, *d*, secured to the upper ends of the shafts F and G. The lower end of the shaft F is provided with a scrubbing-brush, J, and a shaft K is connected by a sliding coupling sleeve, *f*, to the shaft K, which carries the spindles of a pair of rollers, N, composed of sponge or other absorbent material.

At one end of the frame of the machine is a tank, P, provided with a valved spigot, *h*, and at the opposite end of the frame is a tank, T.

The operation of the machine is as follows: Clean water having, if desired, soap or soap-powder in solution, is placed in the tank P, and the spigot *h* being opened, the water is allowed to flow onto the floor, the size of the stream being regulated as circumstances may suggest. The crank *a* is turned so as to rotate the shafts H, F, and G, so that the brush J will effect the scrubbing of the floor, and the

sponge rollers N, following the brush, will soak up the dirty water and leave the floor comparatively dry. When the sponge rollers become saturated with dirty water, the shaft K is detached from the shaft G by lifting the sleeve *f*, and the water is expressed from the rollers into the tank T, after which the shaft K is re-applied, and the operation continued until all portions of the floor have been cleaned.

Bevel-gearing might, if desired, be used for imparting movement from the counter-shaft H to the vertical shafts F and G; but the use of the wheels *b* and *d* with inclined teeth is preferred, as it permits the location of the shaft H in the same horizontal plane as the wheels *d*, and thus renders the machine more compact than if bevel-wheels were used.

I claim as my invention—

1. The combination of a frame mounted upon wheels, two vertical shafts, one having at the lower end a scrubbing-brush and the other an absorbent swab, a counter-shaft, and gearing for driving both of the vertical shafts therefrom, all substantially as specified.

2. The combination of a frame mounted upon wheels, two vertical shafts, one having at the lower end a scrubbing-brush and the other an absorbent swab, a counter-shaft, and gearing for driving both of the vertical shafts therefrom, and two tanks carried by the frame, all substantially as specified.

3. The combination of a frame mounted upon wheels, vertical shafts carrying brushes or swabs, and having wheels *d* with inclined teeth, and a horizontal driving-shaft having a wheel, *b*, with similar inclined teeth engaging with those of the wheels *d*, as set forth.

4. The combination of the frame, the shaft G K, and a swab consisting of rollers N of sponge, all substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

BERNARDO FERNANDEZ Y RABEIRO.

Witnesses:

P. VAN DEWATER,
DOMINGO FIGAROLO.