No. 837,502. PATENTED DEC. 4, 1906.

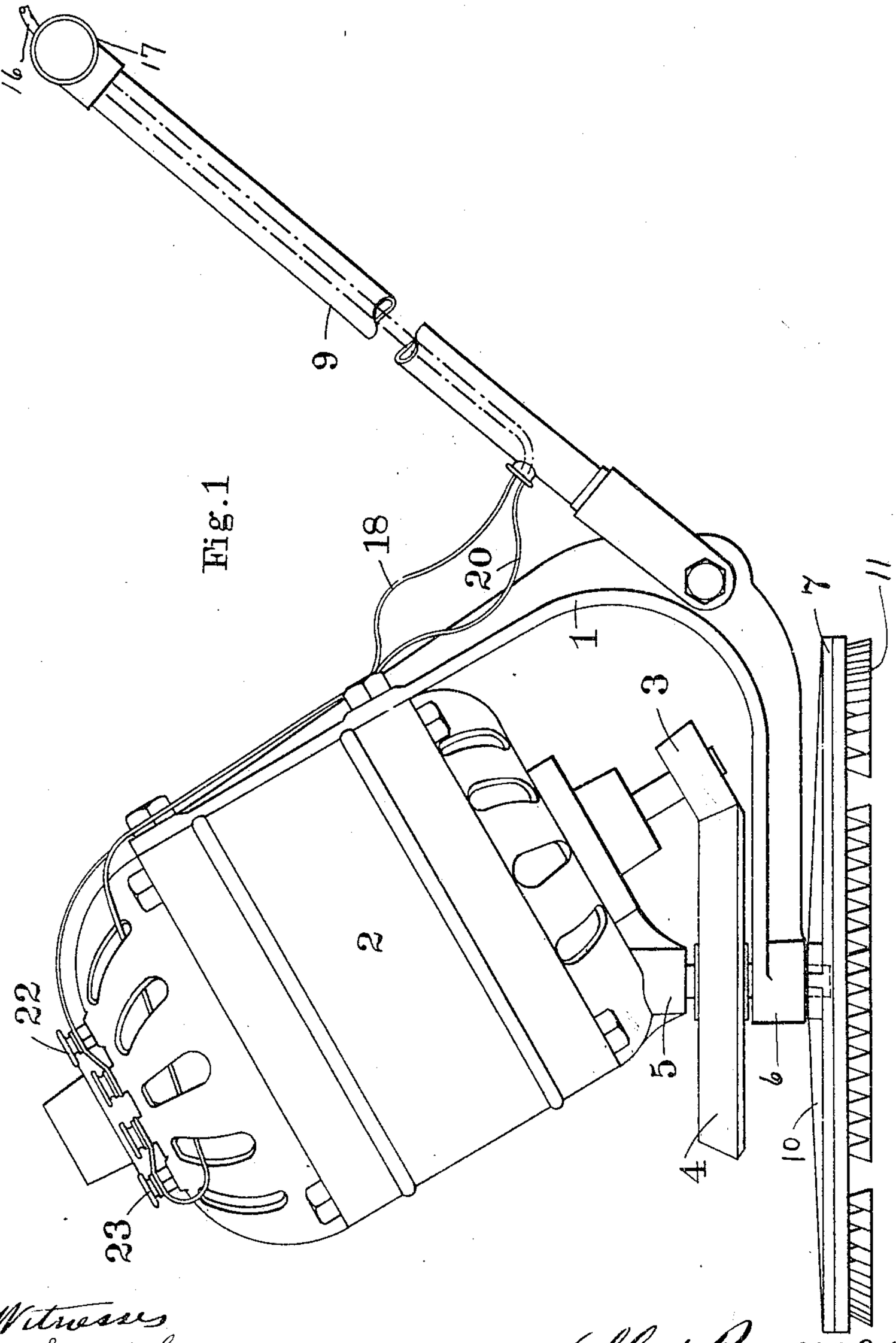
A. PONGRACZ.

POLISHING APPARATUS.

APPLICATION FILED JULY 5, 1904. RENEWED NOV. 1, 1906.

2 SHEETS—SHEET 1.

Fig. 1



Witnesses
Josephine A Greene
Joseph L Gillies

Alfred Pongracz
Inventor

By Duncan & Duncan
Attys

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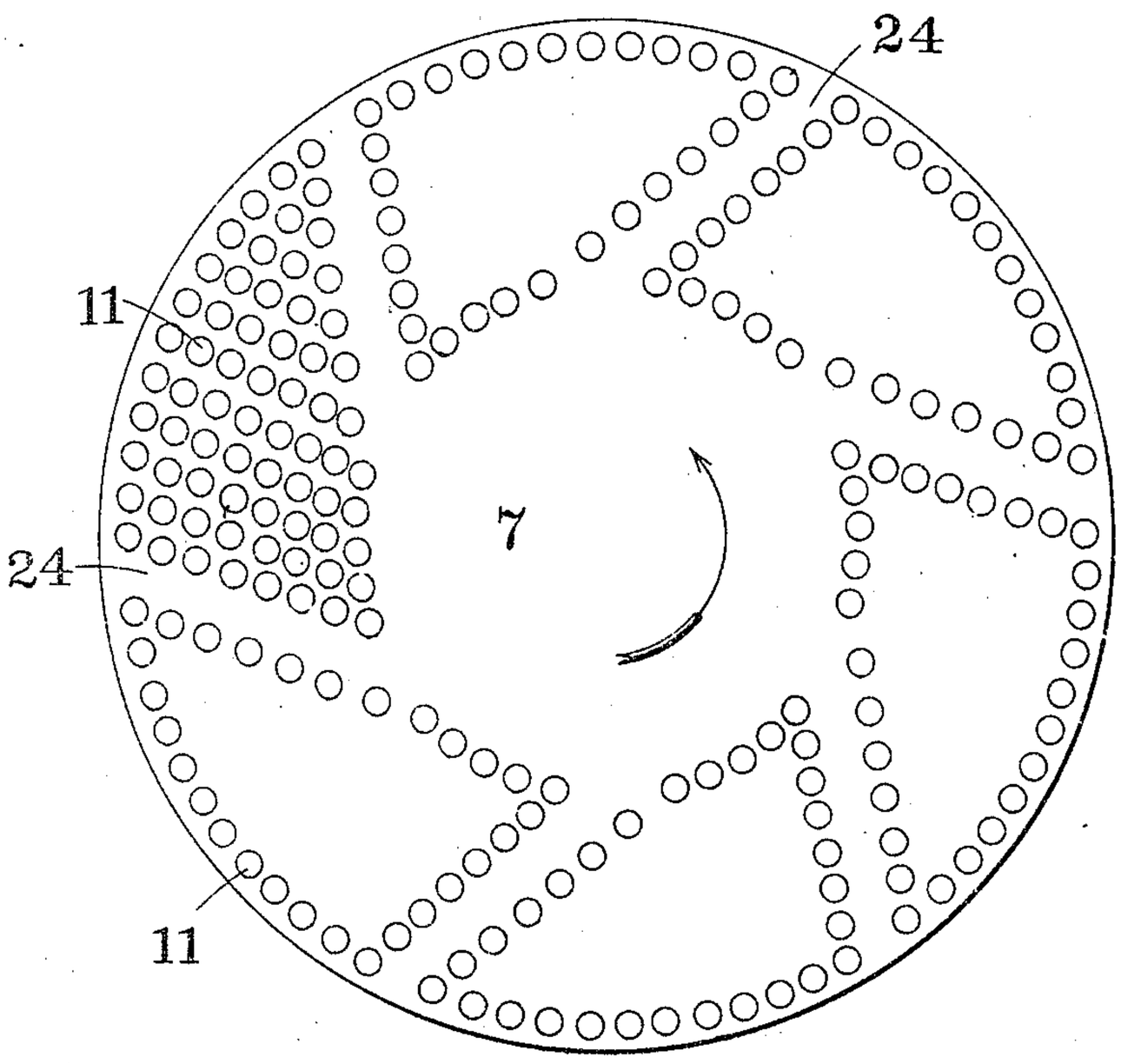
2 SHEETS—SHEET 2.

Fig. 2



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UNITED STATES PATENT OFFICE.

ALFRED PONGRACZ, OF LOSONCZ, AUSTRIA-HUNGARY.

POLISHING APPARATUS.

No. 837,502. Specification of Letters Patent. Patented Dec. 4, 1906.

Application filed July 5, 1904. Renewed November 1, 1906. Serial No. 341,623.

To all whom it may concern:

Be it known that I, ALFRED PONGRACZ, engineer, a subject of the Emperor of Austria-Hungary, and a resident of Losoncz, Austria-Hungary, have invented certain new and useful Improvements in or Relating to Polishing Apparatus; and I hereby declare the following to be a full, clear, and exact description of an illustrative embodiment of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to apparatus which on being guided along the floor to be treated after previous application of wax automatically polishes the floor, so that no hand labor is necessary except that required in guiding the apparatus, a suitable electric motor preferably operating a rotary brush that engages the floor with its flat face that is provided with bristles and self-clearing channels.

In the illustrative form of this invention shown in the drawings, in which the same numerals refer to similar parts, Figure 1 shows the apparatus in side elevation. Fig. 2 is a plan view of the under side of a polishing-brush.

The frame of the apparatus consists of a bracket 1, Fig. 1, upon which an electric motor 2 is mounted in such a manner that its center of gravity is in the vertical axis of the apparatus. Owing to this method of mounting the electric motor the stability of the apparatus is insured.

The armature-spindle projecting from the motor-casing is provided with a gear-wheel 3, engaging with a larger gear-wheel 4, carried on a spindle. One end of this spindle is supported in a bearing 5, secured to the motor-casing, the other end passing through a bearing 6 on the lower arm of the bracket 1 and carrying the polishing-brush 7 or other finishing member. Therefore when the motor is started the brush begins to rotate, and the parts of the floor over which the apparatus is guided by the aid of the handle 17 of the guide-rod 9, which is pivoted to the frame, are polished or finished.

The polishing-brush 7, Fig. 1, comprises a disk provided with stiffening-ribs 10, into which bristles 11, Fig. 2, are inserted in such a manner as to form several clearing-passages 24, extending from the central portion of the brush to the periphery in the direction opposite to that of the rotation, as shown by the arrows in the drawings, so that the dust produced under the brush during polishing is projected outward and automatically discharged while the apparatus is working.

An electrical current is supplied to the motor through a long flexible conductor 16, Fig. 1.

For polishing floors the brush 7 is screwed on the spindle of the wheel 4, the current turned on, and the apparatus guided along the floor by means of the handle 9.

Having described an illustrative form of this apparatus, to the details of which I do not desire to be limited, what is claimed as new, and what it is desired to secure by Letters Patent, is set forth in the appended claims.

I claim—

1. In polishing apparatus, a frame, a disk brush revolubly mounted in said frame, a motor in said frame and geared to said brush to operate the same, said motor being substantially above the axis of said brush and a guiding-handle pivoted to said frame.

2. In polishing apparatus, a frame, a disk brush mounted in said frame to revolve about a vertical axis, a motor mounted in said frame and having its center of gravity substantially in line with the axis of said brush and gearing to operate said brush from said motor.

3. In polishing apparatus, a frame, a disk brush revolubly mounted in said frame to revolve about a vertical axis, a motor mounted in said frame with its center of gravity substantially above the axis of said brush, the armature-spindle being inclined at an angle to said axis and gearing to operate said brush from said motor, the parts being so arranged that the entire weight of the motor is borne or carried by the brush.

4. In a polishing apparatus, a U-shaped bracket having arms of unequal length, the longer of which is curved forming a bearing for the motor, the other end forming a bearing for the brush-spindle, a motor mounted in the bracket having its center of gravity

substantially above the axis of the brush, a brush mounted on the end of the spindle supported within the arm of the bracket, the spindle, a gear mounted upon the spindle and meshing with a gear of the motor, means for moving the polishing apparatus over the floor to be polished, the parts being so arranged that the entire weight of the motor and the bracket rests upon the brush, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

ALFRED PONGRACZ.

Witnesses:

JOHN GERGENTRZ,

LOUIS VAINDORY.