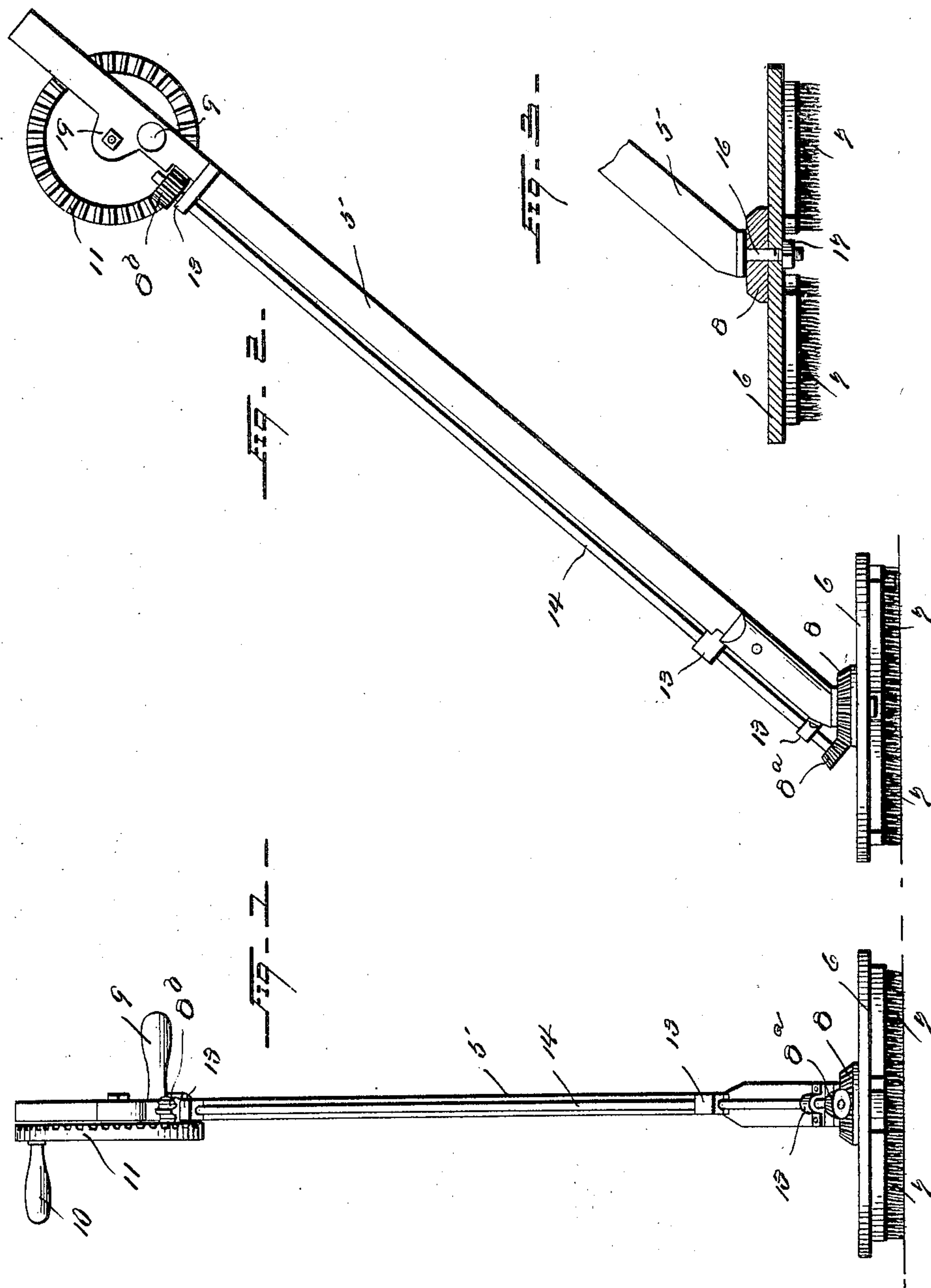


No. 821,763.

PATENTED MAY 29, 1906.

W. H. STRANGE.
FLOOR POLISHER.

APPLICATION FILED OCT. 31, 1905.



INVENTOR

WITNESSES:

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WILLIAM H. STRANGE, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF
TO JOHN P. SULLIVAN AND ROBERT H. LANGSTON, OF CHICAGO,
ILLINOIS.

FLOOR-POLISHER.

No. 821,763.

Specification of Letters Patent.

Patented May 29, 1906.

Application filed October 31, 1905. Serial No. 285,257.

To all whom it may concern:

Be it known that I, WILLIAM H. STRANGE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Floor-Polishers, of which the following is a specification.

This invention is a device for brushing or scrubbing or polishing floors. It is particularly useful for polishing wax floors, although either brushes or polishing-blocks may be used, as desired.

The device includes a rotatable head to which the brushes or blocks are attached, and this is connected to a handle whereby it may be moved over the floor and is rotated by suitable gearing driven by the operator.

In the accompanying drawings, Figure 1 is a front elevation of the device. Fig. 2 is a side view. Fig. 3 is a detail in section.

Referring specifically to the drawings, 6 indicates a circular head, to the under side of which are attached several scrubbing-brushes 7, preferably disposed radially, so as to rub sidewise over the floor when the head is rotated. The head is attached to the lower end of a bar 5 by means of a bolt 16 and nut 17, the bolt acting as a pivot on which the head rotates. Upon the head is a bevel-gear 8, which meshes with a pinion 8^a on the lower end of a shaft 14, which extends along the bar and is held and supported in bearings 13 thereon. At the upper end the bar is provided with a laterally-extending handle 9, and also with a crown gear-wheel 11, which has a handle 10, whereby it may be turned. The spindle of this gear is mounted on a bracket 19, secured to the bar 5. The teeth of the crown-wheel 11 mesh with a small pinion 8^b at the upper end of the shaft 14.

By means of the handle 9 the device may

be pulled or pushed across a floor, the head being at the same time rotated by the crank-wheel and gearing described.

The construction is light and handy and such that it can be operated by a person of even small strength.

It will be noticed that there is an absence of a wheeled frame or other structure rolling on the floor, which is objectionable because of difficulty of manipulation and also because of the possibility of making tracks on the surface being polished or cleaned.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a device of the kind stated, the combination with a handle-bar having a fixed pivot-pin extending at an angle at one end, and a crank-wheel at the other, of a head and a bevel gear-wheel fixed thereto, rotatable on the pin, and a shaft extending along the bar and having gears at its opposite ends which mesh with said bevel-gear and the crank-wheel respectively.

2. In a device of the kind stated, the combination with an inclined handle-bar having at one end a vertical pivot-pin fixed thereto, a head and a bevel-gear rotatable horizontally on said pivot, a handle extending laterally on one side of the other end of the bar, a crank-wheel supported on the other side of the bar, a shaft extending along parallel to the bar and supported in bearings thereon and having at its ends gear-wheels in mesh with the crank-wheel and the bevel-gear.

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

WILLIAM H. STRANGE.

Witnesses:

CLARA PROSCHE,
H. G. BATCHELOR.