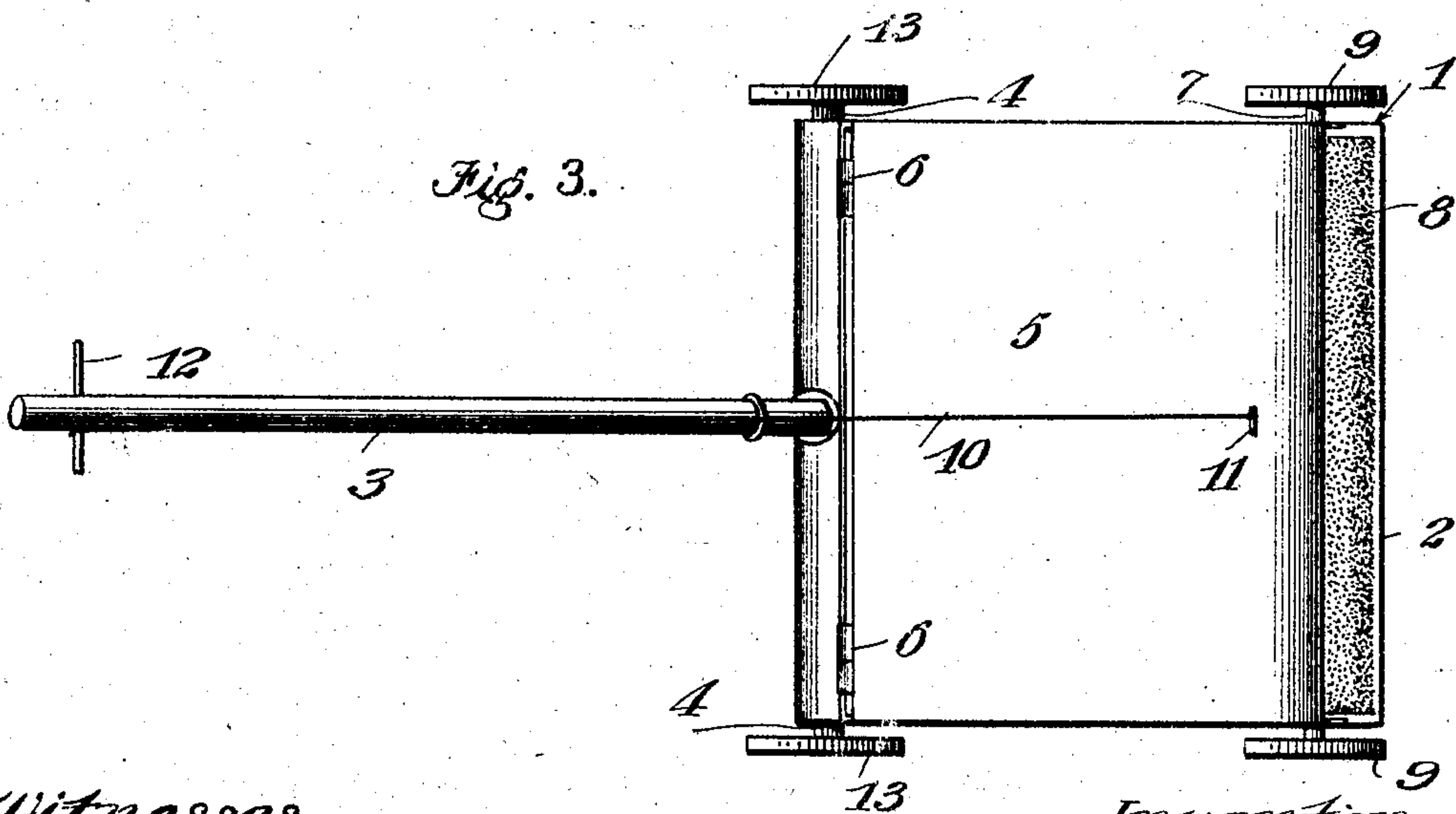
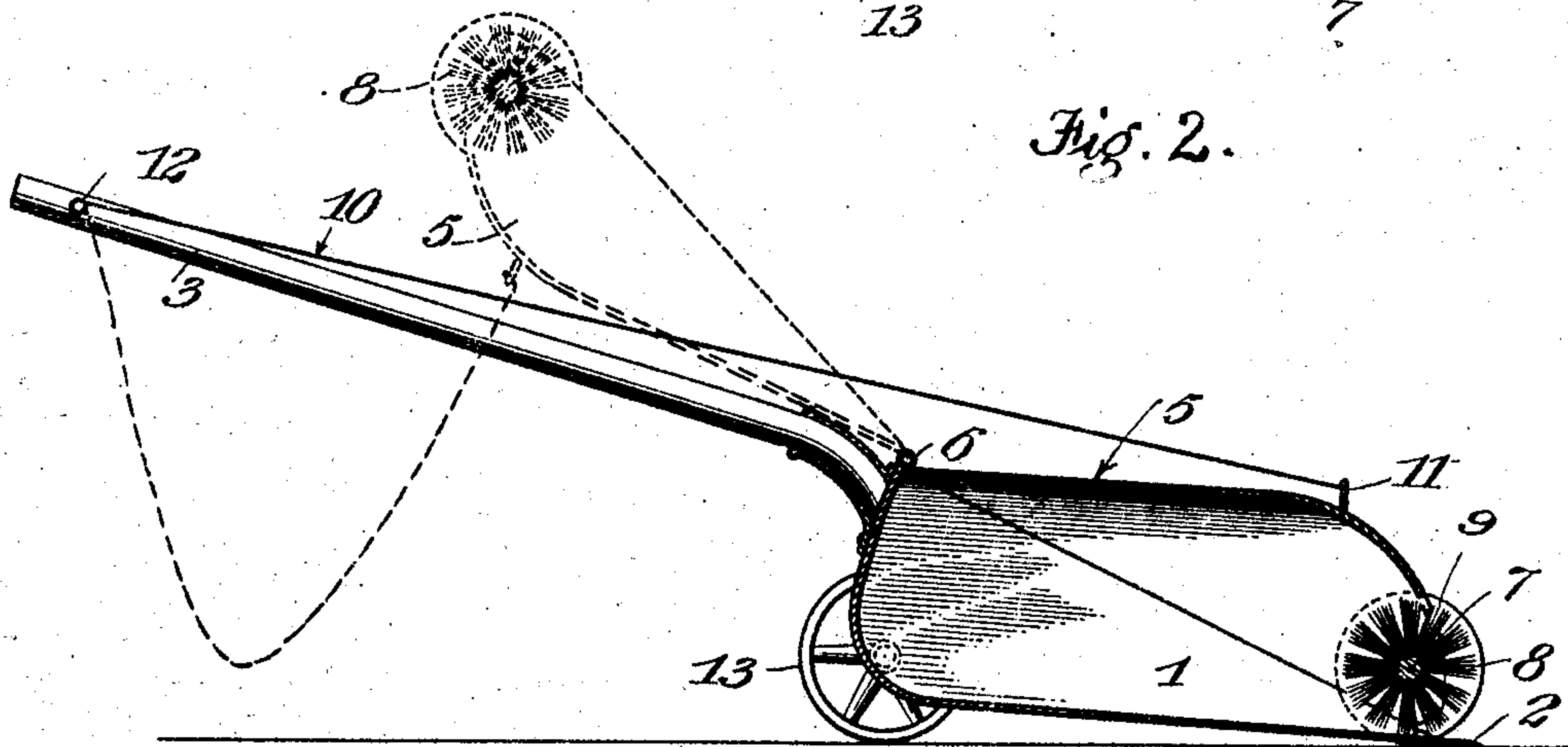
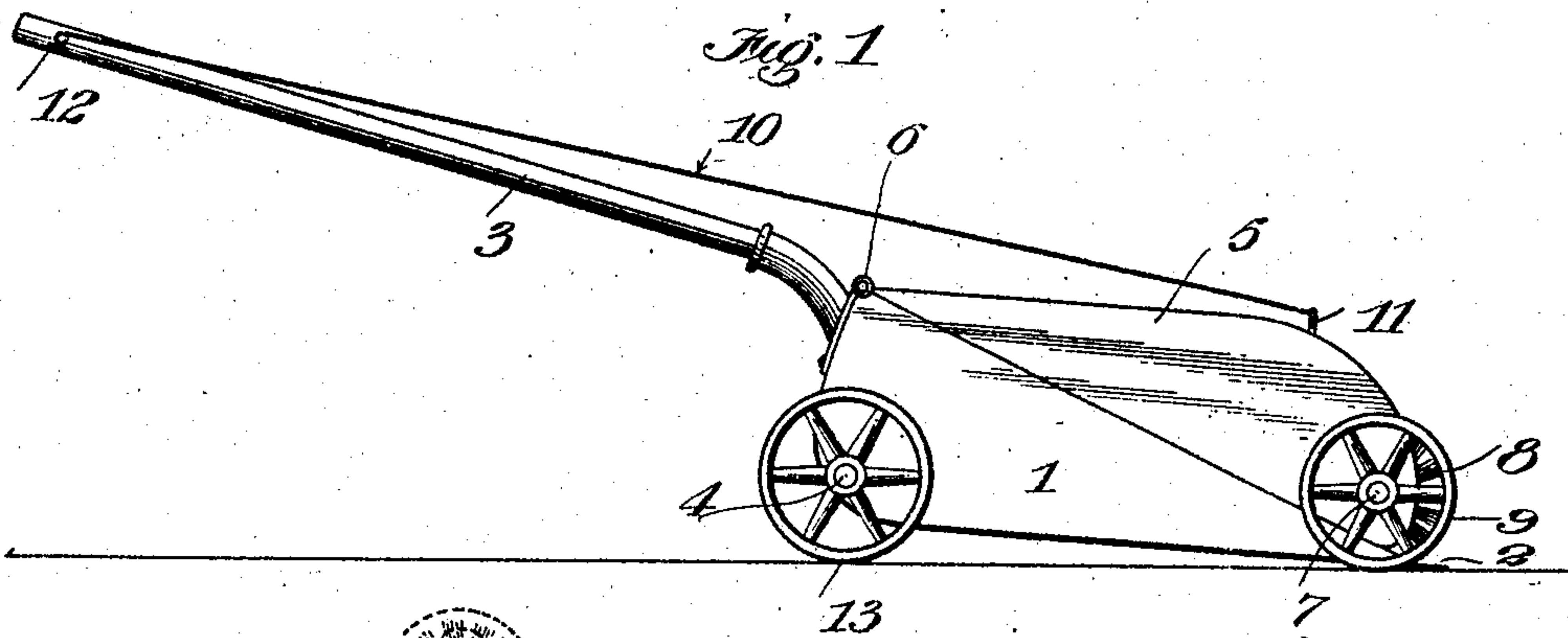


No. 781,543.

PATENTED JAN. 31, 1905.

D. G. McCLAY.
STREET CLEANER.

APPLICATION FILED APR. 18, 1904.



Witnesses

Samuel A. Shaw

A. P. Knight

Inventor

David G. McClay

by *Townsend Bros*
Attys.

UNITED STATES PATENT OFFICE.

DAVID G. McCLAY, OF SANTA ANA, CALIFORNIA.

STREET-CLEANER.

SPECIFICATION forming part of Letters Patent No. 781,543, dated January 31, 1905.

Application filed April 18, 1904. Serial No. 203,759.

To all whom it may concern:

Be it known that I, DAVID G. McCLAY, a citizen of the United States, residing at Santa Ana, in the county of Orange and State of California, have invented a new and Improved Street-Cleaner, of which the following is a specification.

The primary object of the invention is to provide, in connection with a street-scraper and dirt-collecting pan, a brush which will automatically propel the dirt collected by the scraper rearwardly into the pan, thus obviating the use of a separate brush by the operator. The use of such a separate brush, as is now customary, is arduous and renders the sweeping process comparatively slow, whereas with an automatic brush the operation becomes at once easier and more rapid.

My invention also relates to means for covering the dirt or dust receptacle while in use and allowing it to be quickly opened for inspection and emptying when desired.

According to my invention the brush above referred to is supported on a member which is movably connected with the dirt-removing pan and carries supporting and brush-driving wheels.

The accompanying drawings illustrate the invention.

Figure 1 is a side elevation of the street-cleaner. Fig. 2 is a vertical section showing the cover and brush member in full lines in operative position and in dotted lines in open position. Fig. 3 is a plan.

Referring to Figs. 1 and 3, the pan 1 is provided at its open front end with a scraping edge or lip 2 and at its rear end with a handle 3. Said pan may, if desired, be mounted at its rear end on a supporting-axle 4, having wheels 13 adapted to run on the street-surface. A cover member 5 is pivoted at the rear end by hinges 6 to the top of the pan member 1 and extends forwardly to about the front of the device, where it is provided with axle, shaft, or journal means 7 for the brush 8, ground-wheels 9 being provided on said journal means or axle and being adapted to bear on the street-surface externally of the pan member 1 to support the forward end of the cover member and at the same time cause ro-

tation of the brush, said brush, wheels, and shaft being connected to rotate together. The cover 5 extends over the brush 8. A cord or flexible connection 10 is attached to an eye 11 near the front end of the cover member 5 and extends rearwardly, being connected at its rear end to the handle 3, as by means of a cross-pin 12 through said handle, over which said cord is tied or looped.

The operative position of the device is shown in Fig. 1, the front end, lip, or blade 2 of the pan being allowed to rest upon the street-surface and the device being pushed forward by the operator, so as to cause said blade to cut or scrape the dirt adhering to the street-surface, said dirt, as well as all loose dust and material, passing over onto the top of said lip and under the brush 8. At the same time the forward movement of the device over the street-surface causes the wheels 9 to rotate upon said surface, with the result that the brush 8 is also rotated in a direction to brush or propel the collected dirt and dust backwardly into the rear end of the pan. During this operation the cover member 5 prevents escape of the dust. When sufficient dust and dirt has thus been accumulated, the operator pushes or conveys the device to a suitable place or receptacle, and pulling up the cover member 5 sufficiently by means of the cord 10 he tips the pan so as to allow the contents thereof to slide out. If desired, the cover member may be swung all the way open, as indicated in dotted lines in Fig. 2.

The device above described can be used for cleaning any surface, the application as a sweeper being selected only as the most usual one. For example, it may be used as a carpet-sweeper, particularly if the brush be located at or near the front of the pan.

Various modifications may be made in the device to adapt it to particular uses.

What I claim is—

1. The combination of a pan open at the front, with brush means at the front of the pan, and driving means moving the brush means above the pan to carry material backwardly on the pan.

2. In a cleaner, a pan open at the front, with a rotary brush at the front of the pan,

and a ground-wheel connected to rotate the brush.

3. A street-cleaner comprising a pan open at the front, its bottom formed with a cutting-
5 lip at the front edge, a rotary brush arranged above said lip, and a ground-wheel connected to said brush.

4. A street-cleaner comprising a pan open at the front, a member pivoted to said pan, a
10 rotary brush carried by said member, and a ground-wheel on said member connected to drive said brush.

5. A street-cleaner comprising a pan open at the front, a cover member pivoted to said
15 pan, a shaft journaled in said member, a brush on said shaft, under the cover member and over the pan, and ground-wheels on said shaft.

6. A street-cleaner comprising a pan having a handle, a cover hinged rearwardly to
20 said pan, and a flexible connection between said cover and handle.

7. A street-cleaner comprising a pan hav-

ing a handle, a cover member hinged rearwardly to said pan, a rotary brush journaled in said cover member, driving-wheels on the
25 cover member connected to rotate said brush, and a lifting-cord connected to the cover.

8. A street-cleaner comprising a pan having a handle, supporting-wheels at the rear end of said pan, a cover member hinged rear-
30 wardly to said pan and provided forwardly with supporting-wheels, and a brush below said cover member and connected to said wheels.

In testimony whereof I have signed my name
35 to this specification, in the presence of two subscribing witnesses, at Los Angeles, in the county of Los Angeles and State of California, this 12th day of April, 1904.

DAVID G. McCLAY.

In presence of—

ARTHUR P. KNIGHT,
ANNA M. HOLLY.