

L. J. CHAPMAN.
DUST PAN.
APPLICATION FILED FEB. 14, 1907.

900,705.

Patented Oct. 13, 1908.

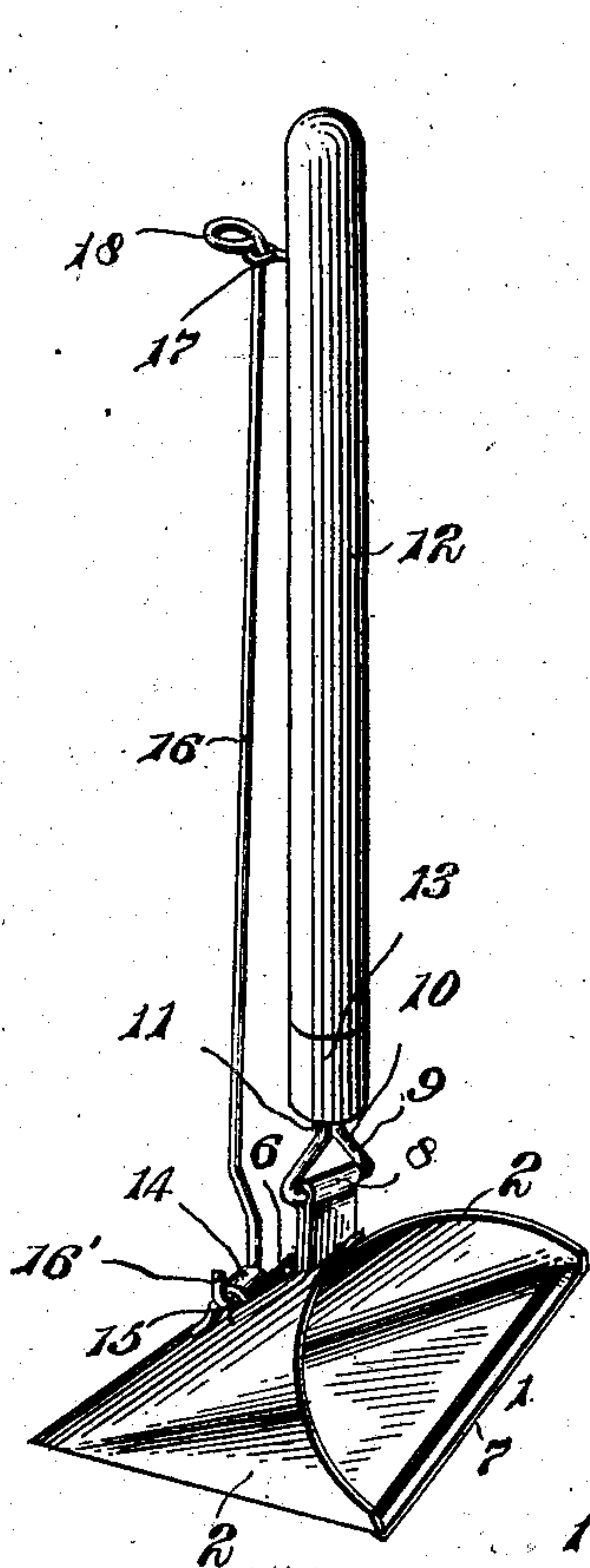


Fig. 1.

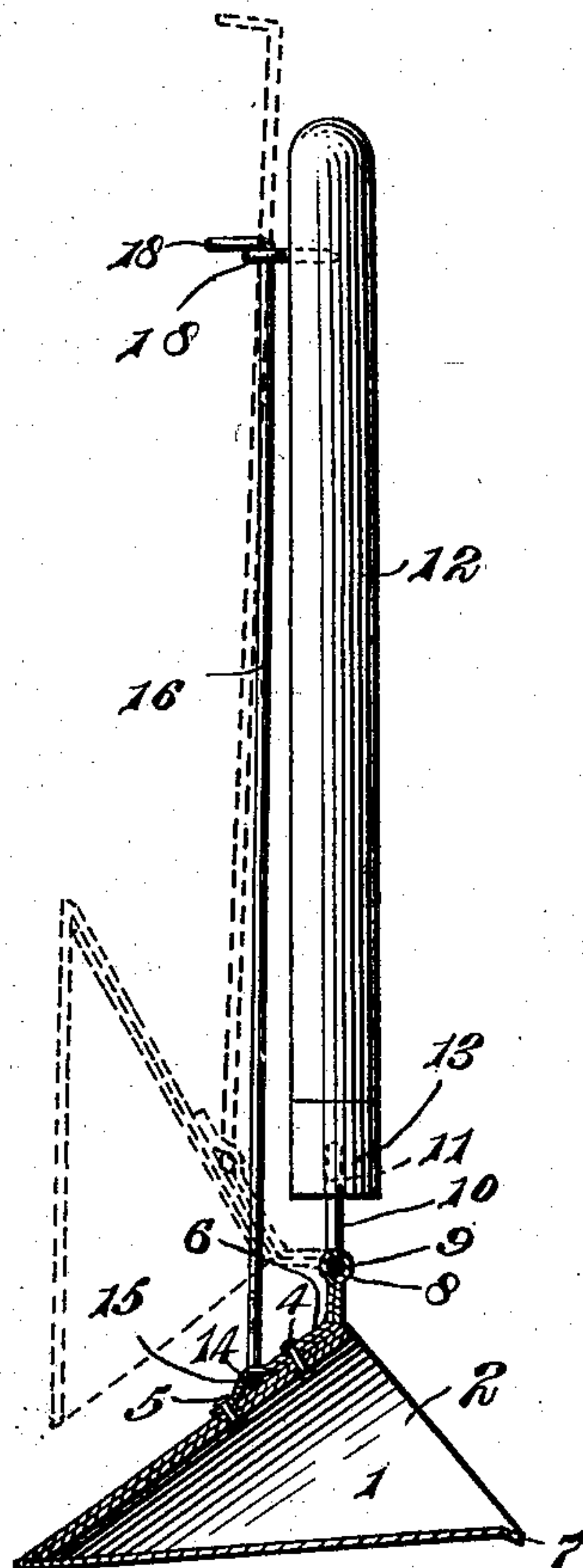


Fig. 2.

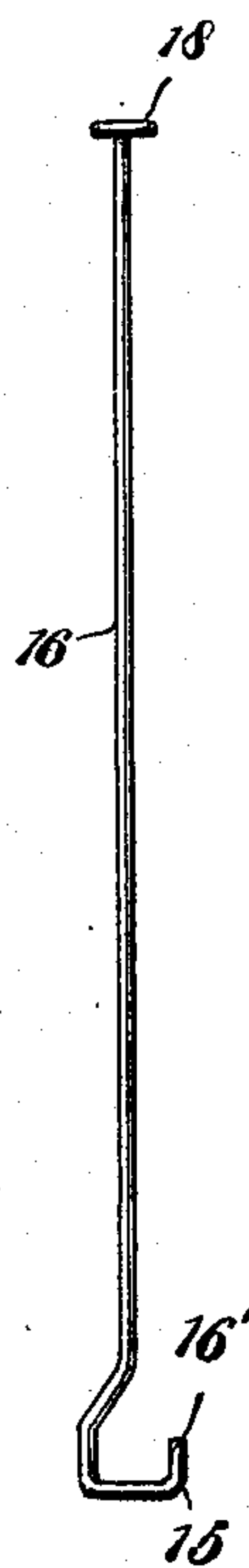


Fig. 5.

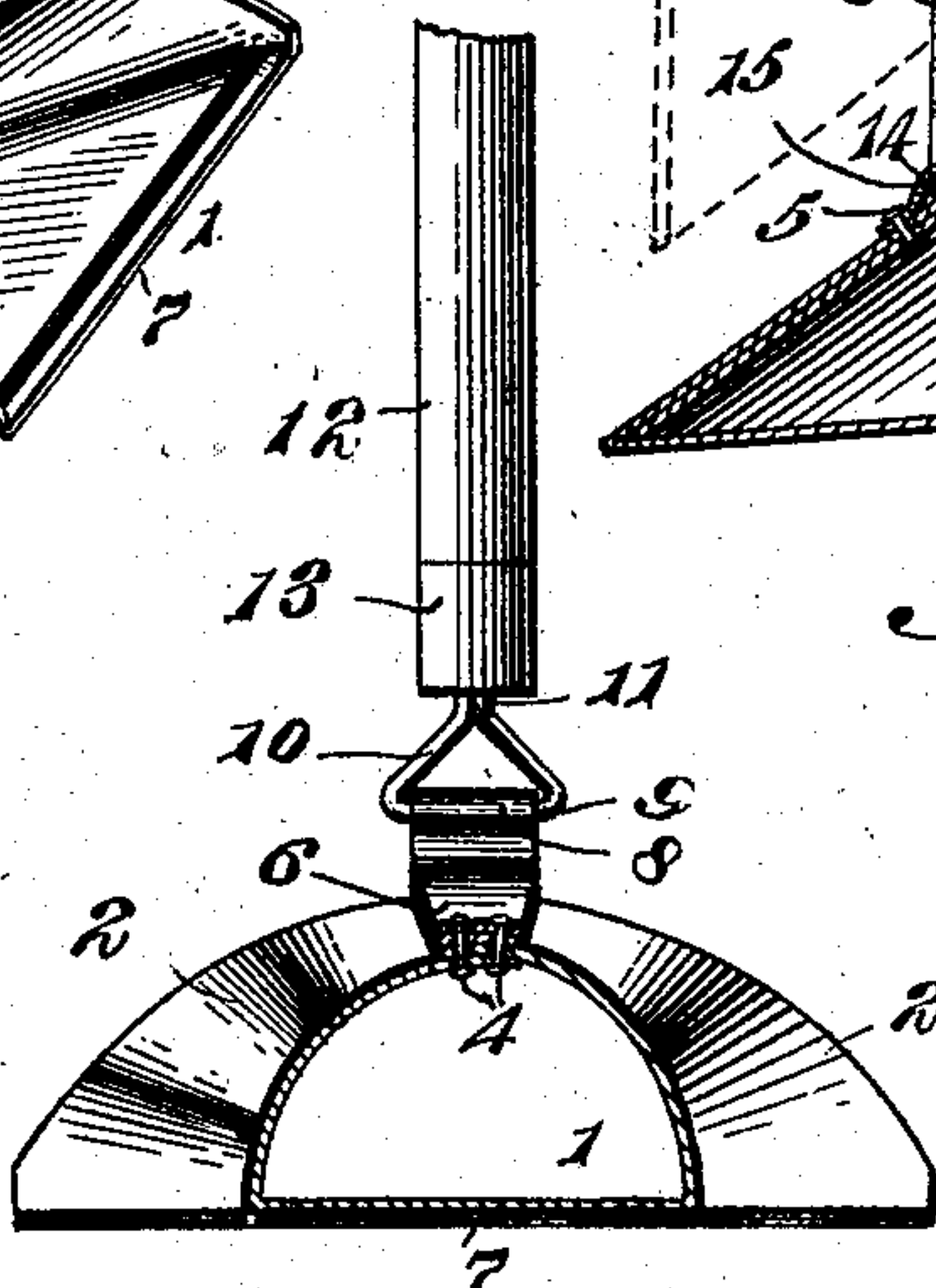


Fig. 3.

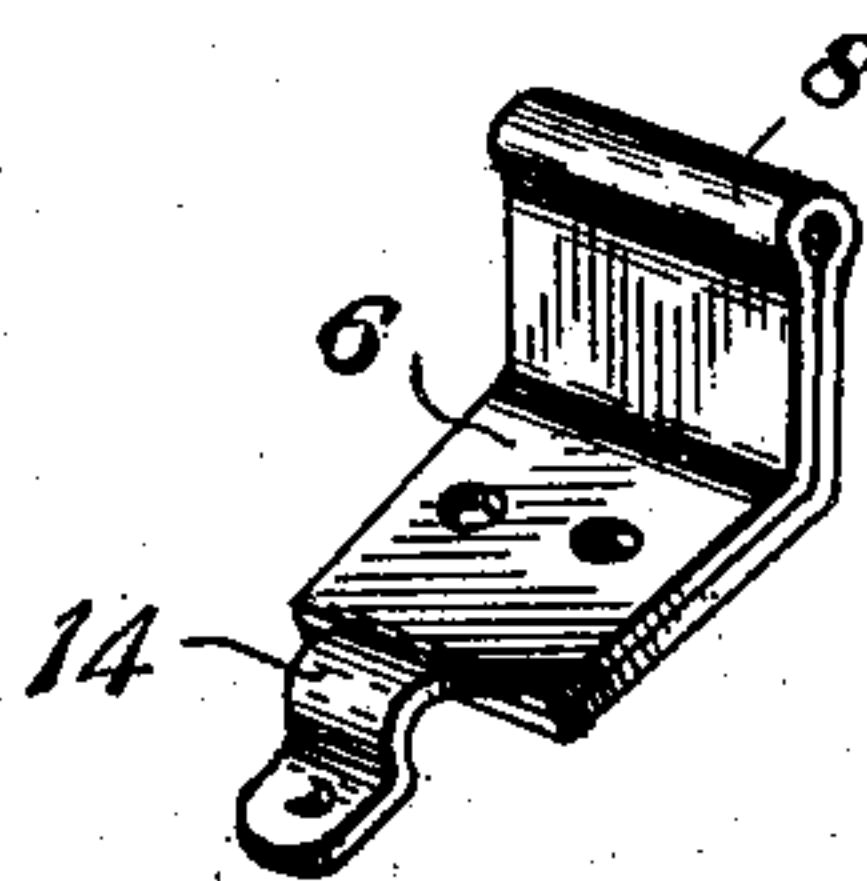


Fig. 4.

Lee J. Chapman, Inventor.

Witnesses

J. Howard Bishop

J. F. Riley

By

E. G. Siger

Attorney

UNITED STATES PATENT OFFICE.

LEE J. CHAPMAN, OF COLUMBUS, OHIO.

DUST-PAN.

No. 900,705.

Specification of Letters Patent.

Patented Oct. 13, 1908.

Application filed February 14, 1907. Serial No. 357,407.

To all whom it may concern:

Be it known that I, LEE J. CHAPMAN, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a new and useful Dust-Pan, of which the following is a specification.

The invention relates to improvements in dust pans.

The object of the present invention is to improve the construction of dust pans, and to provide a simple, inexpensive and efficient one, adapted to be operated with one hand to hold it in position to receive the dust, to carry it, and to empty the dust.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a perspective view of a dust pan, constructed in accordance with this invention and shown in position to receive the dust. Fig. 2 is a longitudinal sectional view of the same, the pan being swung upward in dotted lines to empty its contents. Fig. 3 is a transverse sectional view. Fig. 4 is a detail view of the hinge element. Fig. 5 is a detail view of the operating rod.

Like numerals of reference designate corresponding parts in all the figures of the drawing.

1 designates a hooded dust pan, constructed of a single piece of sheet metal, and consisting of a tapering substantially triangular portion and upwardly curved overlapped portions 2, forming the hood or top of the dust pan, as clearly illustrated in Figs. 1 and 3 of the drawing. The overlapped edges of the side portions 2 of the hood or top of the dust pan are secured together by rivets 4 and 5, which not only unite the said overlapped edges, but which also secure a hinge element 6 to the top of the dust pan. The transverse front edge 7 of the bottom of the pan is bent downward slightly at an angle to enable it to fit closely against the floor, or other surface, so that all of the dust may be readily swept into the pan.

The hinge element, which is constructed of sheet metal, or other suitable material, is provided at the front end of the seam with an upwardly extending eye 8 for the reception of a pintle portion 9 of a substantially triangular loop 10. The strip of sheet metal, of which the hinge element is constructed, is doubled and angularly bent to provide the said upwardly extending eye. The substantially triangular loop, which is constructed of a single piece of wire, or other suitable material, has the terminals thereof bent upwardly to form a shank 11, which is embedded in the lower end of a wooden handle 12. The handle, which is provided at its upper end with a grip portion, is preferably reinforced at the lower end by a ferrule 13. This construction hinges the dust pan to the lower end of the handle, and enables the former to assume a horizontal position to receive the dust, and to be swung upwardly to a substantially vertical position, as illustrated in dotted lines in Fig. 2 of the drawing, to empty the dust.

The hinge element 6 is provided in rear of the doubled portion with a reduced portion or tongue, consisting of an extension of one of the thicknesses of the doubled portion and bowed upwardly to form a rear eye 14 for the reception of a pintle or pivot 15 of an operating rod 16. The lower end of the operating rod is deflected laterally and bent at right angles to provide a pivot, and the terminal 16 of the pivot is bent at an angle to retain the pivot in the rear eye of the hinge element. As the lower end of the operating rod is hinged to the top of the dust pan at a point below and in rear of the point where the handle is hinged, and as the lower end of the operating rod is also spaced from the handle, the operating rod is caused to assume an inclined position, when the handle is vertical.

The operating rod, which extends to the upper portion of the handle, passes through a guide eye 17, located near the upper end of the handle, and having a shank, which is embedded in the same. The upper end of the operating rod is provided with a combined hanger and handle loop 18, which also forms a stop for engaging the guide 17 to limit the downward movement of the rear portion of the pan, whereby the latter will maintain a substantially horizontal position, when lifted by the handle.

The dust pan is adapted to be operated with one hand, and may be readily placed

in position on a floor, or other supporting surface to receive the dust. It is adapted to be carried by the upper end of the handle, and the pan may be readily tilted, without releasing the handle, by hooking one of the fingers under the loop of the operating rod and drawing the same upward. When the device is not in use, the loop of the operating rod may be hung on a nail or hook. This will cause the pan to assume a vertical position, and will enable the same to hang compactly against a wall, or other surface. Also the handle loop 18 of the operating rod is adapted to engage the eye 17 to limit the forward swing of the handle 12, whereby the latter is supported in an upright position.

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

1. A device of the class described comprising a pan, a hinge element thereon consisting of a strip of sheet metal doubled on itself and angularly bent at the front to form an upwardly projecting eye, one of the thicknesses of the metal being extended in rear of the doubled portion and bowed to form a rear eye, a handle having a pintle arranged in the front eye of the hinge element, an operating

rod connected with the rear eye of the hinge element and extending to the upper portion of the handle, and means arranged at the upper portion of the handle for guiding and moving the operating rod.

2. A device of the class described comprising a hooded pan having an inclined top, a handle hinged to the top of the pan at the front thereof and provided near its upper end with an eye, an operating rod also hinged to the top of the pan at a point below and in rear of the point at which the handle is hinged, the lower end of the rod being spaced from the lower end of the handle to cause the rod to assume an inclined position when the handle is vertical, and the said rod being extended to the upper portion of the handle and passing through the said eye and bent to engage the same to limit the forward swing of the handle, whereby the latter is supported in an upright position.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

LEE J. CHAPMAN.

Witnesses:

C. T. WARNER,
LESLIE HILL.