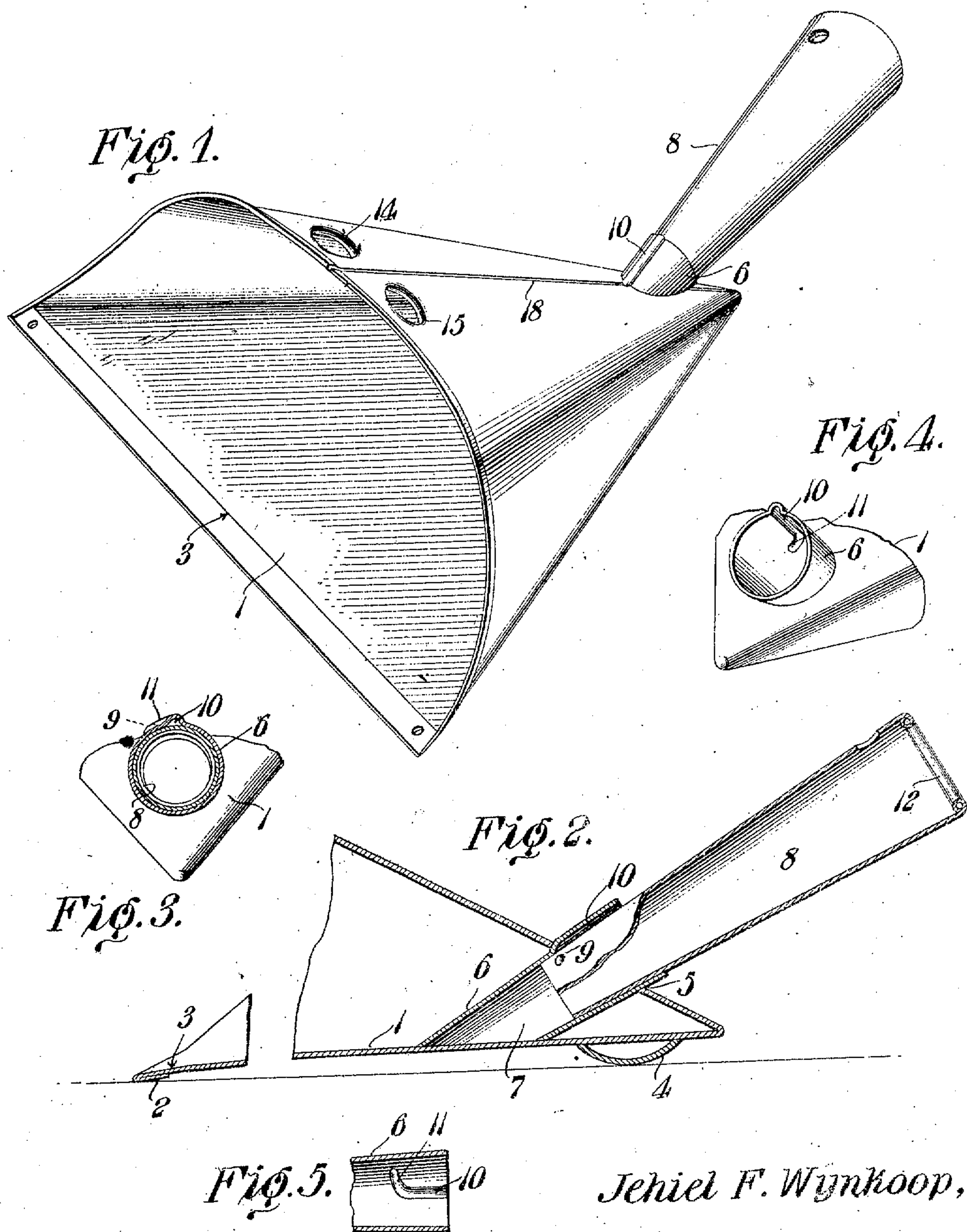


J. F. WYNKOOP.
HOUSEHOLD ARTICLE.
APPLICATION FILED APR. 24, 1907.

2 SHEETS—SHEET 1.



WITNESSES:

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No. 881,758.

PATENTED MAR. 10, 1908.

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2 SHEETS—SHEET 2.

Fig. 6.

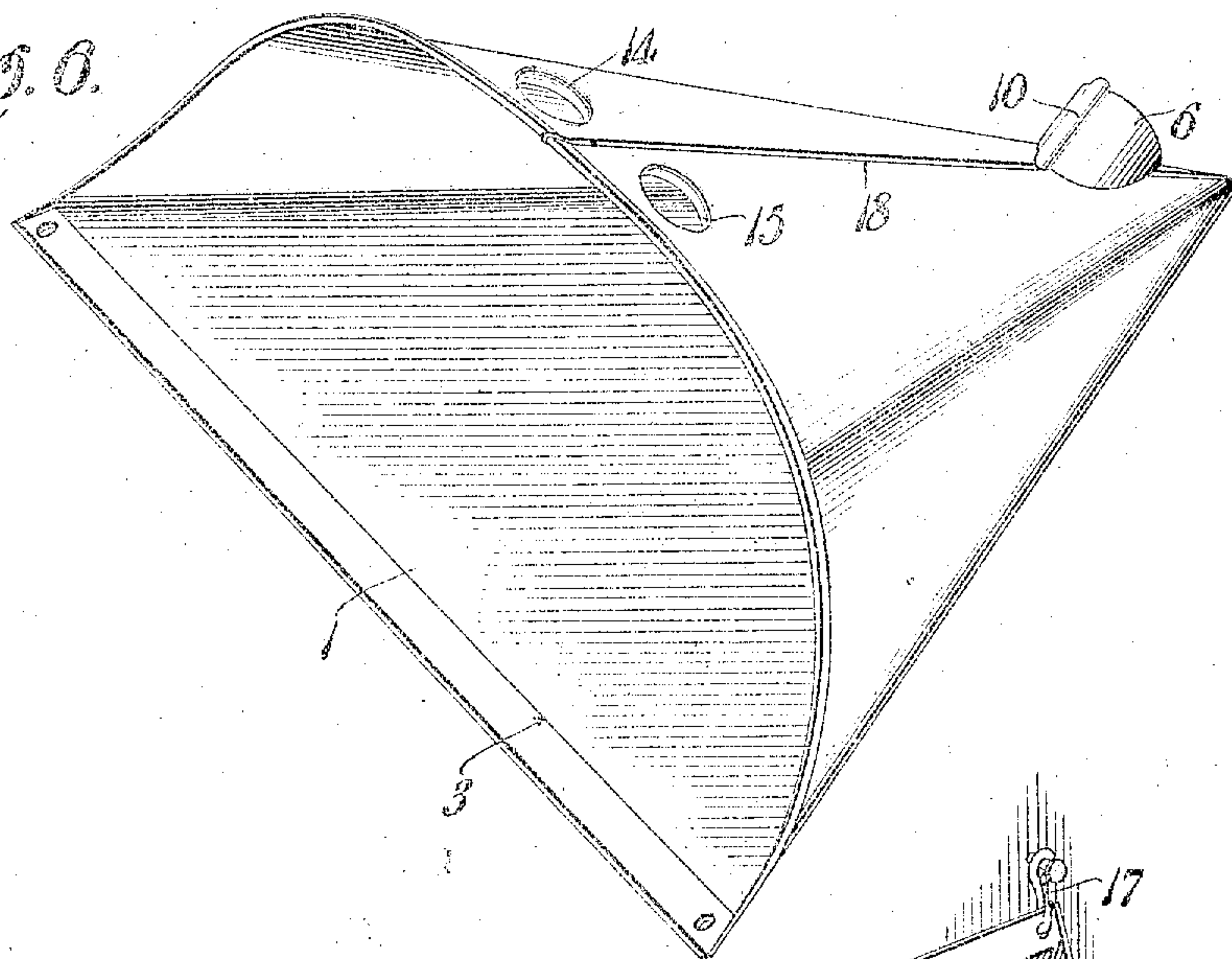
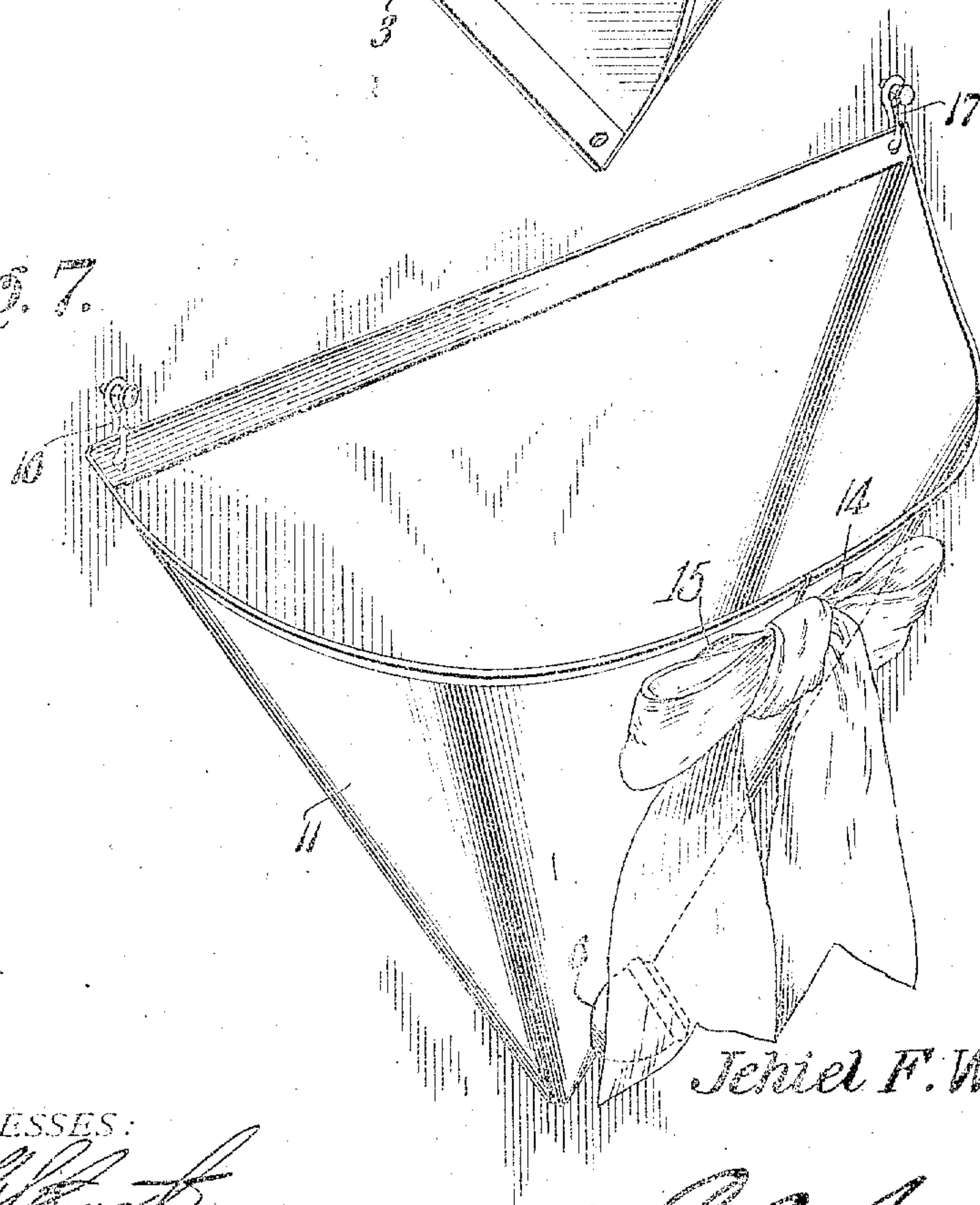


Fig. 7.



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UNITED STATES PATENT OFFICE.

JEHIEL FRANKLIN WYNKOOP, OF MINNEAPOLIS, MINNESOTA.

HOUSEHOLD ARTICLE.

No. 881,758.

Specification of Letters Patent.

Patented March 10, 1908.

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To all whom it may concern:

Be it known that I, JEHIEL FRANKLIN WYNKOOP, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented a new and useful Household Article, of which the following is a specification.

The present invention relates to improvements in devices that are especially useful in a household, and has for its object to provide a device of this character that is particularly adapted for use as a dust-pan and is so constructed that its sweeping edge closely engages the floor, a detachable handle being provided for the pan that facilitates its placing and minimizes the space required in shipping and storing.

In the drawings:—Figure 1 is a perspective view of a household article constructed in accordance with my present invention, the handle being shown in connection with the body. Fig. 2 is a detail sectional view showing the construction of the handle attaching devices. Fig. 3 represents a transverse section through the handle and the sleeve into which it is adapted to fit. Fig. 4 is a perspective view of the closed end of the body showing the handle receiving sleeve. Fig. 5 is a detail view of the locking groove for the handle. Fig. 6 is a perspective view of the device showing the handle removed. Fig. 7 is a perspective view of the device showing the mode of using it as a wall pocket or similar article.

Corresponding parts in the several figures are indicated throughout by similar characters of reference.

The device shown in Figs 1 to 5, inclusive, is made of sheet metal, and it comprises a body preferably composed of relatively thin material and having approximately the form of a cone, one side thereof being flattened to form the bottom or back 1 adapted to lie in close proximity to a flat surface, such as a floor or wall, the edge of the bottom or back thus provided projecting beyond the remainder of the edge of the body that surrounds the opening therein, and the metal is preferably doubled flatwise to form a reinforcement or stiffening strip 2 extending transversely across the open end of the body, it being preferable also to give the metal of the bottom or back a dip at a point adjacent to the reinforcement, as shown at 3, whereby the forward edge of the reinforcing strip will closely engage the flat surface. On the un-

der side of the bottom or back 1 is arranged a projection 4, it being preferably located at a point adjacent to the apex of the body, and of a height sufficient to elevate the closed end of the body high enough to clear any obstructions on the surface which it engages and serving to produce a close engagement between the said surface and the back edge of the bottom or back adjacent to the opening in the body.

Extending diagonally through an aperture 5 formed in the upper or forward side of the body is a sleeve 6 having its end cut diagonally, as at 7, to closely fit the bottom or back 1 which it engages, it being soldered or otherwise so fitted that dust cannot enter the sleeve from the interior of the body. The sleeve is also soldered or otherwise fitted into the aperture 5 so as to prevent exit of the dust between the sleeve and the walls of the aperture 5 through which it passes. This sleeve is constructed in any suitable way, it being preferable to roll it into form from sheet metal, and it is preferably tapered to form a firm fit for the removable handle 8. The handle 8 is preferably tapered to correspond with the taper of the sleeve into which it is adapted to be fitted, and is provided with a peripheral projection 9 which enters the locking groove in the sleeve, this groove having a portion 10 extending longitudinally of the axis of the sleeve, and a laterally turned portion 11, the longitudinal portion of the groove receiving the projection on the handle when the latter is applied to the sleeve by a relative longitudinal movement of the parts, and the laterally turned portion receiving the projection on the handle when the latter is rotated relatively to the sleeve, and as the walls of the laterally extending groove are arranged transversely of the direction in which the parts are moved to separate them, accidental disengagement of the parts cannot occur.

In order to insure a firm connection between the handle and the body of the device, it is preferable to arrange the laterally extending portion of the groove in a direction spirally or diagonally of the sleeve, so that when the parts are relatively rotated, the incline or wedge action of the walls of the groove will operate to draw the handle and sleeve firmly together when the handle is being applied, and serving to release the gripping action between the taper surfaces of the sleeve and the handle preparatory to

removing the latter, so that no effort is required to withdraw the handle from the sleeve. The projection on the handle may be formed by protruding the metal at the desired point by means of a die before the metal is rolled up into form. The upper end of the handle is preferably reinforced by forming the bead or intumed flange 12 on the edge of the metal, the space or opening through the beads, however, being sufficient to admit the lower end of another handle, that is to say, to enable the handles of a number of the devices to be telescoped for packing or storage.

It will be observed that the body portion is substantially conical in shape while the sleeve 6 pierces the upper side of the body portion at the apex thereof thereby to reinforce and strengthen the reduced end of the body portion and assist in preventing the same from becoming dented or otherwise mutilated when in use.

It will also be noted that the projection 4 depends from the bottom or flat side of the pan between the apex thereof and the fixed lower end of the sleeve so as to prevent the lower wall of the pan from being forced upwardly when a downward pressure is exerted on the operating handle.

In that side of the body opposite to the bottom or back 1 are formed a pair of apertures or eyes 14 and 15 which are adapted to receive a thumb and forefinger as a handle to facilitate carrying or handling of the device when the latter is employed as a dust-pan, and they serve as openings through which a ribbon may be passed and tied with a bow or other ornamental device, when the device is employed as a wall pocket or similar article, the portion 1 of the body in such a case lying flatwise against the wall and that side of the body carrying the bow constituting the front of the pocket, the removable handle in that case being removed or dispensed with, and the projection 4 at the under side of the portion 1 serving to prevent the apex of the body engaging the wall and thereby scratching or otherwise injuring it.

In order to permit the device to be employed as a wall pocket, it is provided with a pair of links 16 and 17 that are attached to the upper edge of the portion 1 and are provided with eyes to receive nails or other supporting devices on the wall or other support.

Attention is here called to the fact that the apertures 14 and 15 not only serve as finger openings when collecting sweepings from the floor but also serve as a means for supporting a ribbon when the device is used as a wall pocket.

The body when composed of sheet metal is made of a blank substantially rectangular

in outline, two of the corners of the blank being brought together and folded or otherwise interlocked to form a seam 18 which extends from the apex to the upper edge of that side of the body opposite to the bottom or back 1, the seam extending at each side of the sleeve 6 and between the apertures or eyes 14 and 15 to reinforce the metal adjacent to these parts.

In shipping the devices, the handles are detached and the body portions are nested one within the other, and when made or sold with the handles, the latter are similarly telescoped so that the parts occupy a relatively small space and are not liable to become marred or otherwise injured during handling or transportation.

What is claimed is:—

1. An article of the class described comprising a hollow substantially conical body portion having a mouth or opening, an inclined sleeve extending through the top of the body portion at the apex thereof and having its lower end rigidly secured to the bottom of the latter, said sleeve being provided with a locking groove extending inwardly from the open end of the sleeve in a direction longitudinally thereof, and thence extended diagonally of the sleeve, a corresponding handle adapted to detachably engage the interior walls of said sleeve and having a projection thereon adapted to enter the longitudinal portion of said groove and to operate with the diagonal portion thereof to tighten the handle when turned relatively in one direction and to loosen it when turned relatively in the opposite direction, and a projection depending from the bottom of the body portion between the apex thereof and the fixed lower end of the sleeve.

2. An article of the class described comprising a substantially conical body portion having one side flattened and provided with a sweeping edge arranged at the open end thereof, an inclined sleeve extending through the top of the body portion at the apex thereof and having its lower end rigidly secured to the bottom of the latter, said sleeve having its walls pressed outwardly to form a bayonet groove, a handle having a lug adapted to engage the bayonet groove of the sleeve, and a projection depending from the bottom of the body portion between the apex thereof and the fixed lower end of the sleeve.

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

JEHIEL FRANKLIN WYNKOOP.

Witnesses:

J. M. BEIDLEMAN,
T. B. WHITAKER.