(No Model.)

F. W. CARPENTER.

DUST PAN.

No. 581,846. Patented May 4, 1897.

Fig. 1.

Fig. 2.

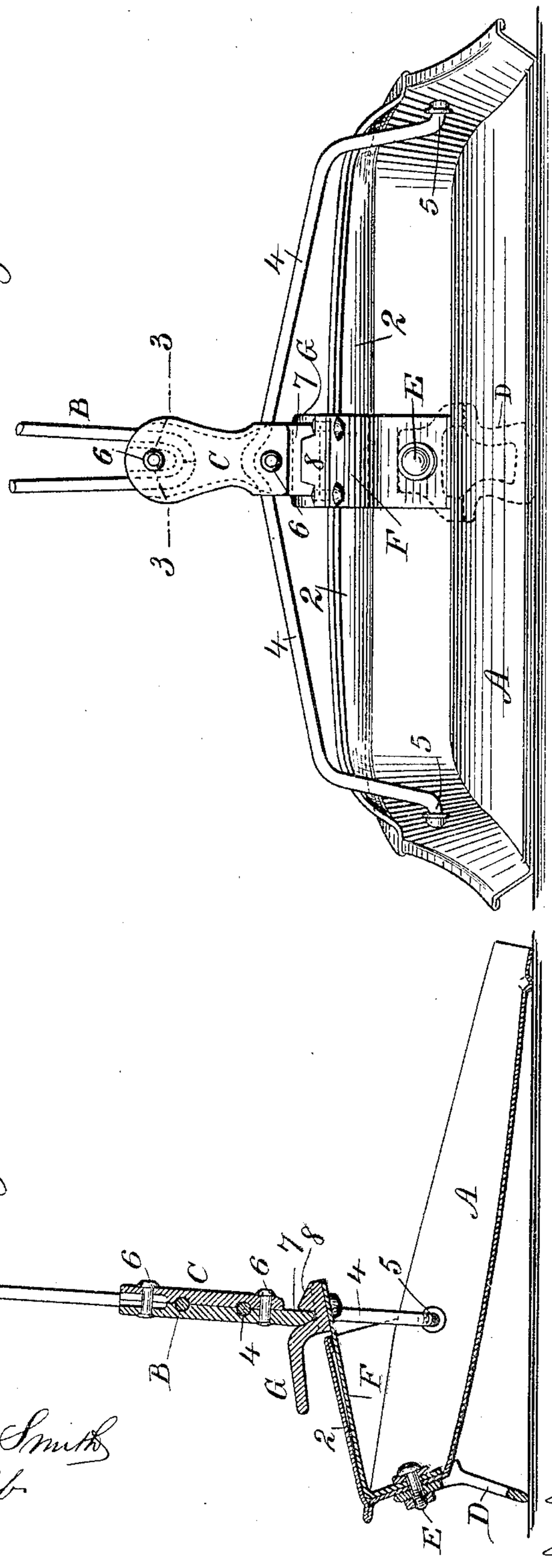
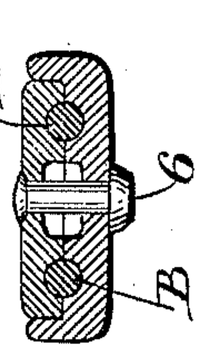


Fig. 3.



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UNITED STATES PATENT OFFICE.

FRANCIS W. CARPENTER, OF PORT CHESTER, NEW YORK.

DUST-PAN.

SPECIFICATION forming part of Letters Patent No. 581,846, dated May 4, 1897.

Application filed September 17, 1896. Serial No. 606,112. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS W. CARPENTER, a citizen of the United States, residing at Port Chester, in the county of Westchester and State of New York, have invented an Improvement in Dust-Pans, of which the following is a specification.

In Letters Patent Nos. 277,225, 285,877, and 298,447 granted to me dust-pans are represented with handles extending upward by which the pan can be easily manipulated by one hand while the brush is being used with the other hand for sweeping dust into the pan, and pivots are employed for connecting the handle to the pan. The present invention is a modification of the devices in said Letters Patent and relates to the particular construction hereinafter described and claimed.

In the drawings, Figure 1 is a front elevation of the pan. Fig. 2 is a vertical central cross-section, and Fig. 3 is a horizontal section at the line 3 3 in larger size.

The pan A is to be of any desired size or character, and it is provided with a hood or partial cover 2 at the rear portion, and there may be a handle, but usually it is preferable to connect the present improvement to a pan without a rear handle.

The upward-extending handle B is advantageously made of wire folded in the middle to form the top of the handle, and the lower ends are bent inward and received between the two parts of the clip C, and the wire 4 passes through the clip and across above the front edge of the hood, and the end portions are bent downward and terminate in horizontal pivots 5, that pass through holes in the pan, which holes are advantageously strengthened by tubular eyelets.

The clip C is applied at the junction of the wires B and 4, and it is preferably made of two pieces of cast-iron grooved in their opposite inner surfaces for the wires, as shown, and these two pieces are connected by the rivets 6, and the rear clip-piece extends below the front clip-piece to form a catch 7. The wires may be bent in any desired manner as they pass into or through the clip.

The back rest D is sufficiently long to hold the dust-pan at the proper inclination when the front edge is upon the floor, and this rest is connected by a bolt E or rivet that passes through the pan and through the lower end of the spring F, so that the parts are firmly connected by such bolt. The spring F is bent so as to lie against the back of the dust-pan and extend up below the hood 2, and it terminates with a latch 8, which is preferably made of cast-iron riveted in place and having a beveled front lip and a rear part extending higher than the lip, so that when the lower edge of the catch 7 upon the clip of the handle is brought into contact with the front edge of the latch the spring F will be depressed, and then the catch will stop against the higher flange of the latch and the spring raises the latch and causes it to hold the clip and handle in position, and being beneath the handle the spring takes most of the weight of the handle or pressure thereon and lessens the risk of the pan or the bail of the handle being bent in use. I also find it advantageous to employ a thumb-piece G, extending to the rear of the latch 8, so that it can be easily acted upon by the thumb or by the toe in depressing the latch and spring for disconnecting the same from the clip and handle, and it will be understood that when the spring and latch are disconnected from the clip and handle the dust-pan can be swung up substantially parallel with the handle and the receptacle between the bottom of the pan and the hood may be used as a brush-holder.

Both hands can be used with a broom, as the pan can rest upon the floor without being held by the hands, as the handle B is at a slight forward inclination, and when the pan is not in use it can be hung up and occupies but little space, because the pan can be turned up into line with the handle.

I claim as my invention—

1. The combination with a dust-pan, of a handle having a cross wire or bail pivoted at its ends to the sides of the dust-pan, and a spring fastened at its back end to the rear of the pan and acting upward beneath the handle to support a portion of the weight of the handle and thereby relieve the pivots, and having a latch at its forward end to engage the handle and maintain the same in an upright position, substantially as set forth.

2. The combination with a dust-pan, of a pivoted handle, a spring-latch for holding the handle, a back rest for supporting the pan

and a bolt or rivet connecting the back rest and the spring with the pan, substantially as set forth.

3. The combination with a dust-pan having a hood of a handle pivoted at its ends to the dust-pan, a spring fastened at its lower back end to the central part of the pan, a latch-piece upon the outer end of the spring, there being a beveled surface to the front of the latch-piece and a flange at the rear extending higher than the beveled surface and forming a stop for the handle, substantially as specified.

4. The combination with a dust-pan having a hood, of a pivoted handle, a spring beneath the middle of the hood and means for connecting the lower end of the spring to the pan, a latch for holding the handle and a thumb-piece connected with the spring and extending back over the hood, substantially as set forth.

Signed by me this 15th day of September, 1896.

FRANCIS W. CARPENTER.

Witnesses:
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S. T. HAVILAND.