Dec. 7, 1937. H. C. DILLIARD 2,101,133

CARPET SWEEPER CASE AND DUSTPAN CONSTRUCTION

Filed April 6, 1936

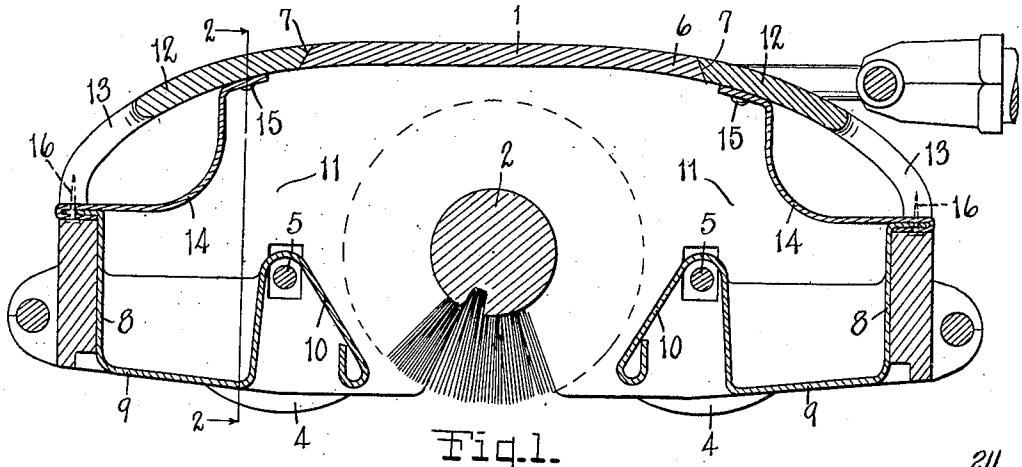


Fig. 1.

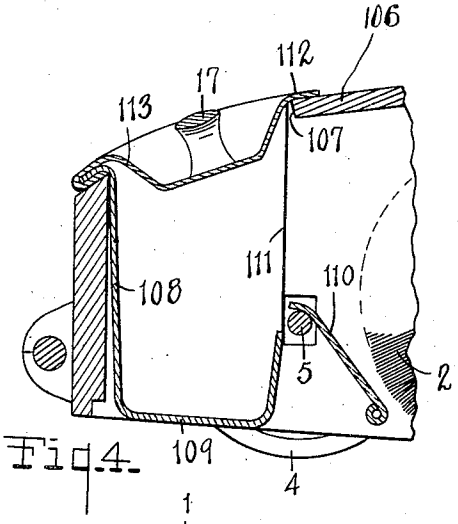


Fig. 4.

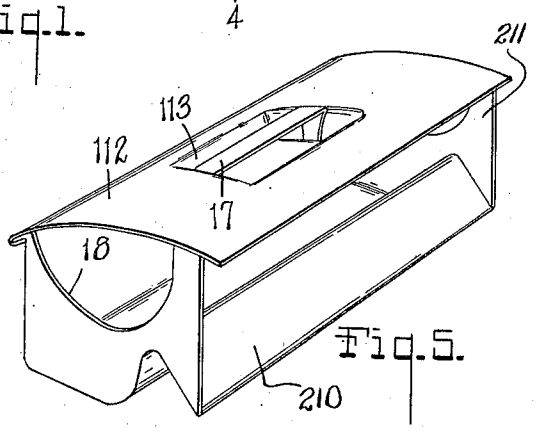


Fig. 5.

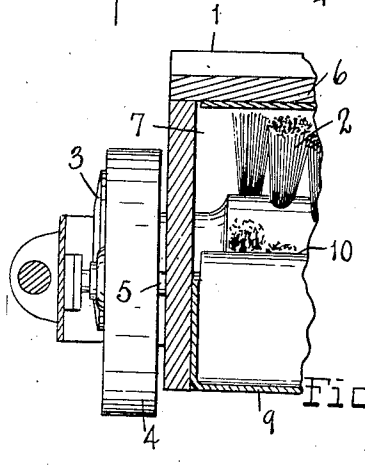


Fig. 2.

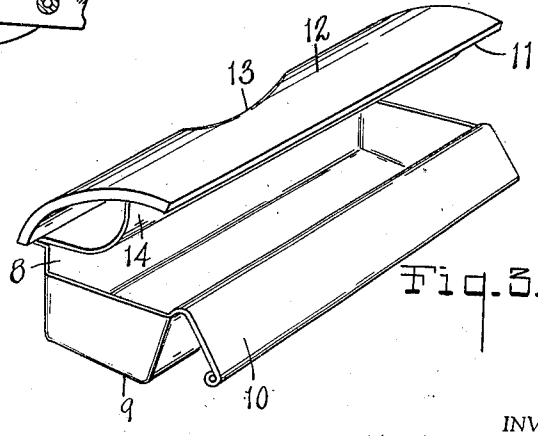


Fig. 3.

INVENTOR.
Herbert C. Dilliard
BY Chappell, Earl & Chappell
ATTORNEYS

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CARPET SWEEPER CASE AND DUSTPAN CONSTRUCTION

Herbert C. Dilliard, East Bangor, Pa., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich.

Application April 6, 1936, Serial No. 72,870

2 Claims. (Cl. 15—41)

This invention has for its objects:

First, to produce a new and improved carpet sweeper dust pan and casing construction.

Second, to produce such a construction in which the dust pans are removable to facilitate dumping of the sweepings therefrom and to facilitate the inspection and repair of the rest of the carpet sweeper.

Third, to provide such a construction in which the dust pans are removable through the top of the casing and have sections forming a portion of the top of the casing whereby a sweeper of nice appearance is provided.

Further objects and advantages pertaining to details and economies of construction and operation will appear from the description to follow. Preferred embodiments of my invention are illustrated in the accompanying drawing, in which:

Fig. 1 is a sectional view through a carpet sweeper embodying my invention.

Fig. 2 is a detail sectional view taken on line 2—2 of Fig. 1.

Fig. 3 is a perspective view of a dust pan made in accordance with my invention.

Fig. 4 is a detail sectional view of a slightly modified type of a dust pan in place in a carpet sweeper casing.

Fig. 5 is a perspective view of a still different modified form of dust pan for a carpet sweeper.

In the drawing, 1 is a carpet sweeper casing which has therein a brush 2 of usual construction which is provided with a hub 3 which engages the floor wheels 4 of the sweeper. These floor wheels 4 are provided at each end of the sweeper and have axles 5 extending through the casing parallel to the brush. The casing consists of a top member 6 which has openings 7 therein for the introduction and removal of the dust pans 8.

In the drawing Figs. 1–3, I show a type of dust pan made of sheet metal. The dust receiving portion 9 extends parallel with the brush and has a lip 10 which extends over the through axles 5 and into proximity to the brush 2. An opening 11 parallel with the brush is provided for the sweepings to pass into the portion 9 of the dust pan. The dust pan is fastened to a section 12 of the top of the sweeper casing which section fills the opening 7 and provides a continuation of the top of the sweeper casing. The section 12 is provided with a hole 13 for the insertion of a finger for removal of the dust pan which is lifted out through opening 7 and the dust pan is provided with a sheet metal portion 14 which extends under the opening 13 and is fastened as at 15 and 16 to the section 12, providing a well into which a finger may be inserted and providing a cover through which the sweepings from the dust pan 8 will not pass.

In the modification of the device shown in Fig. 4, I provide a dust pan 108 having a portion 109 for receiving the sweepings. A sheet metal top 112 is provided which fits over the opening 107 in the top of the sweeper casing and seals the opening, the portion 112 of the dust pan forming a continuation of the top 106 of the sweeper casing. A guide 110 is provided which extends over the through axle 5 of the sweeper casing and to a point adjacent the brush 2. This guides the sweepings from the brush over into the dust pan 108. A depression 113 is provided in the top portion 112 of the dust pan and a handle 17 is provided in said well for removal of the dust pan. The sweepings pass into this dust pan through the opening 111. In Fig. 5 I show a still different modification of structure embodying features of the structure shown in Figs. 1 to 3 and the structure shown in Fig. 4. The top of the pan shown in Fig. 5 at 112 is the same as the top 112 of the pan structure of Fig. 4, and has a depression 113 the same as the depression in the structure of Fig. 4, and a handle 17. The end wall differs from the end wall of the structure of Fig. 4 in that it has an opening 18 therein for dumping the sweepings from the pan instead of dumping them through the opening 211 through which they pass to the pan. In the structure of Fig. 5 the bottom is constructed substantially the same as the structure of Figs. 1 to 3 and the member 210 is substantially the same as the member 10 in the structure of Figs. 1 to 3

It will be appreciated that with my construction the dust pan may be removed from the sweeper for dumping and the awkwardness of having to carry the whole sweeper and hold it while dumping it is eliminated. At the same time it is possible to remove the dust pans which facilitates access to the other parts of the sweeper for inspection or repair.

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

1. In a carpet sweeper having a casing, an elongated rotary brush therein, and floor wheels with an axle extending through the casing, the combination of a removable dust pan disposed parallel with said brush, a guide extending upwardly from adjacent said brush over said axle and to said pan, said pan having an opening to receive sweepings passing over said guide from said brush, the top of said casing having an

opening for the removal of said dust pan and said dust pan having a top closing said opening and forming a portion of the top of the casing when said pan is in position in said casing.

2. In a carpet sweeper having a casing, and an elongated rotary brush therein, the combination of a casing top having a removable section extending parallel with and along one side of the brush, a hole in said section for the insertion of fingers for the removal of said section, and a sheet metal dust pan fastened to the bottom of said section and having a metal member extending under said hole and spaced from the bottom of said removable section, said dust pan extending parallel with said brush and having an opening to receive sweepings from said brush.

HERBERT C. DILLIARD.