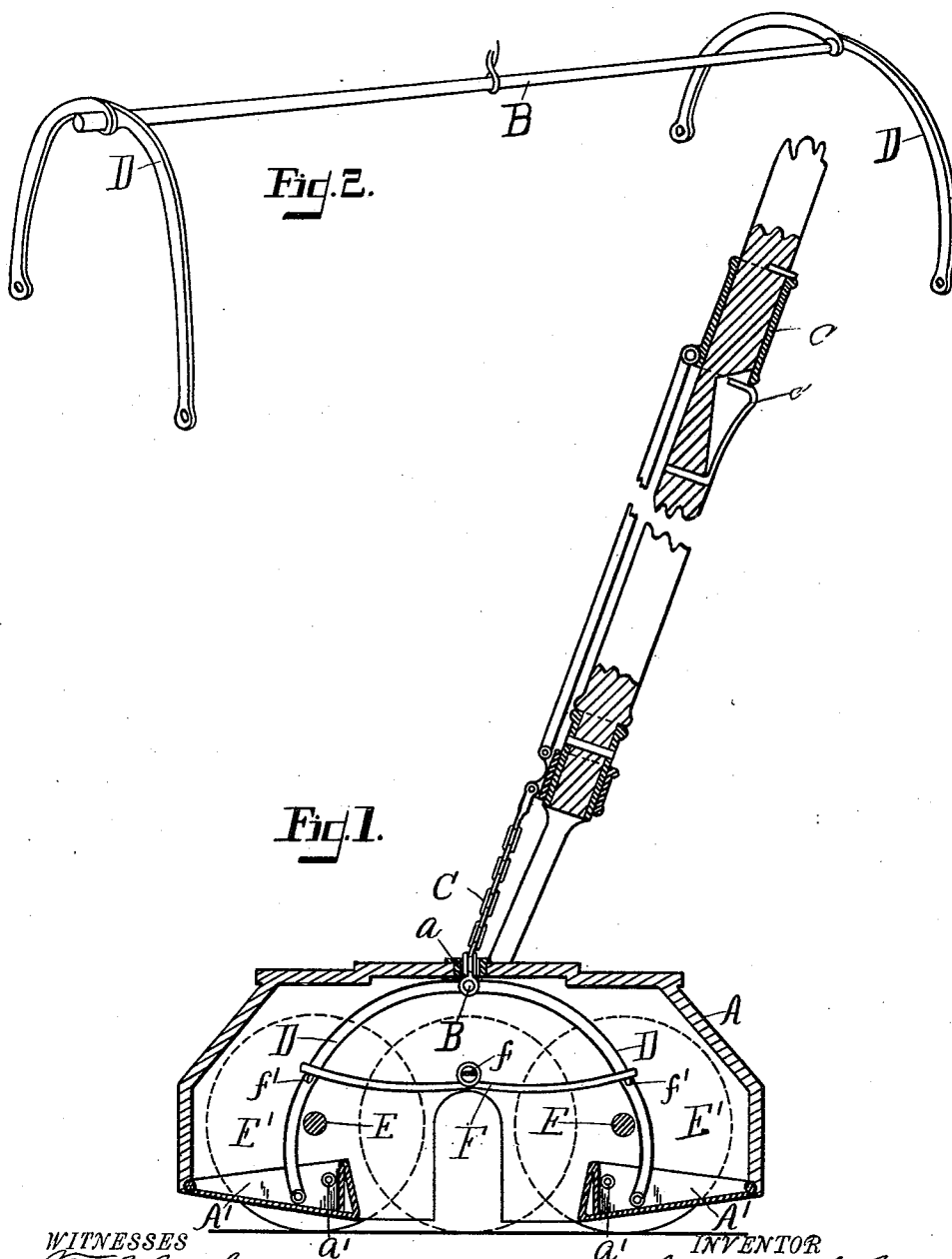


(No Model.)

G. S. SANFORD.
CARPET SWEEPER.

No. 481,828.

Patented Aug. 30, 1892.



WITNESSES
F. Clough.
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UNITED STATES PATENT OFFICE.

GEORGE S. SANFORD, OF MOUNT CLEMENS, MICHIGAN.

CARPET-SWEEPER.

SPECIFICATION forming part of Letters Patent No. 481,828, dated August 30, 1892.

Application filed November 9, 1891. Serial No. 411,375. (No model.)

To all whom it may concern:

Be it known that I, GEORGE S. SANFORD, a citizen of the United States, residing at Mount Clemens, county of Macomb, State of Michigan, have invented a certain new and useful Improvement in Carpet-Sweepers; and I declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to carpet-sweepers of the class shown by my application filed herewith, Serial No. 411,373, of November 9, 1891, in which I have claimed, broadly, the general features of my invention, consisting in the combination of various means for opening and closing the dust-pan with a rod or cable permanently connected therewith and operating longitudinally with the handle of the sweeper.

In this application I desire to cover certain special forms embodying this principle, and I herein show a combination of links connected to the pan and operated to open the same by a chain or cable permanently attached to an intermediate non-rotatable rod or bar running through the center of the sweeper, connected with the links and adapted to open them by raising the bar by means of the cable or chain.

In the drawings, Figure 1 is a vertical sectional view of a sweeper, showing the dust-pans, the links, the springs employed to force the pans open, and the handle, with the means attached thereto for operating the cable. Fig. 2 is a view of the longitudinal rod or bar and the links showing the connection of the chain or cable with the center of the bar.

In the drawings, A is the case or frame of the sweeper.

A' A' are the dust-pans.

B is a longitudinal rod extending lengthwise of the sweeper in the center and running directly underneath the opening *a* up through the center of the sweeper, through which the chain C passes freely. This chain C is engaged with the center of the rod or

bar. To each end of this rod or bar is attached a pair of curved links D D. These links move over the inner surface of the end of the case and are curved for the purpose of extending them outside of the shaft E of the wheels of the sweeper E'. The lower end of the links D are pivoted to the dust-pans outside of the pivot *a'* of the dust-pan on which it oscillates.

F is a spring attached to the end of the case at *f*, and having each end engaged with a pin *f'* on the links. This adapts the spring to exert a downward force on the links and tends to force the pans open.

In Fig. 1 the handle employed is shown, in which the chain C extends lengthwise of the handle and is engaged with the sliding hand-piece *c*. In the handle is a spring-catch *c'*, adapted to retain the sliding hand-piece *c* at the upper extremity of its movement. When the hand-piece is drawn upward and held in its elevated position by the spring-catch, the dust-pans A' are forced into their closed position against the action of the spring F. When it is desired to dump the dust-pans, the spring-catch *c'* is depressed, which allows the hand-piece to slip down the handle and the dust-pan to be forced open by the spring F. By drawing the hand-piece again up the handle the dust-pans are closed. The rod B may be placed diagonally across the sweeper, and the connecting-links drop straight from each end to the dust-pans at opposite ends of the sweeper.

What I claim is—

1. In a carpet-sweeper, the combination of a dust-pan, a longitudinal bar, links connecting said bar with said dust-pan, and a cable attached to the said bar and extending out through the case and extending lengthwise of the handle, substantially as described.

2. In a carpet-sweeper, the combination of a dust-pan, a longitudinal bar, links connecting said bar with said dust-pan, a cable connected to the said bar and extending out through an opening and lengthwise of the handle, and means mounted on said handle and connected with said cable for operating the same, substantially as described.

3. In a carpet-sweeper, the combination of
a dust-pan, a longitudinal bar, links connect-
ing said bar with said dust-pan, a spring en-
gaged with said links and adapted to force
5 said dust-pan open, and a cable connected
with the said bar and extending lengthwise of
the handle, substantially as described.

In testimony whereof I sign this specifica-
tion in the presence of two witnesses.

GEORGE S. SANFORD.

Witnesses:

MARION A. REEVE,
EFFIE I. CROFT.