

No. 665,805.

Patented Jan. 8, 1901.

J. W. SHANAHAN.  
CARPET SWEEPER.

(Application filed Sept. 10, 1900.)

(No Model.)

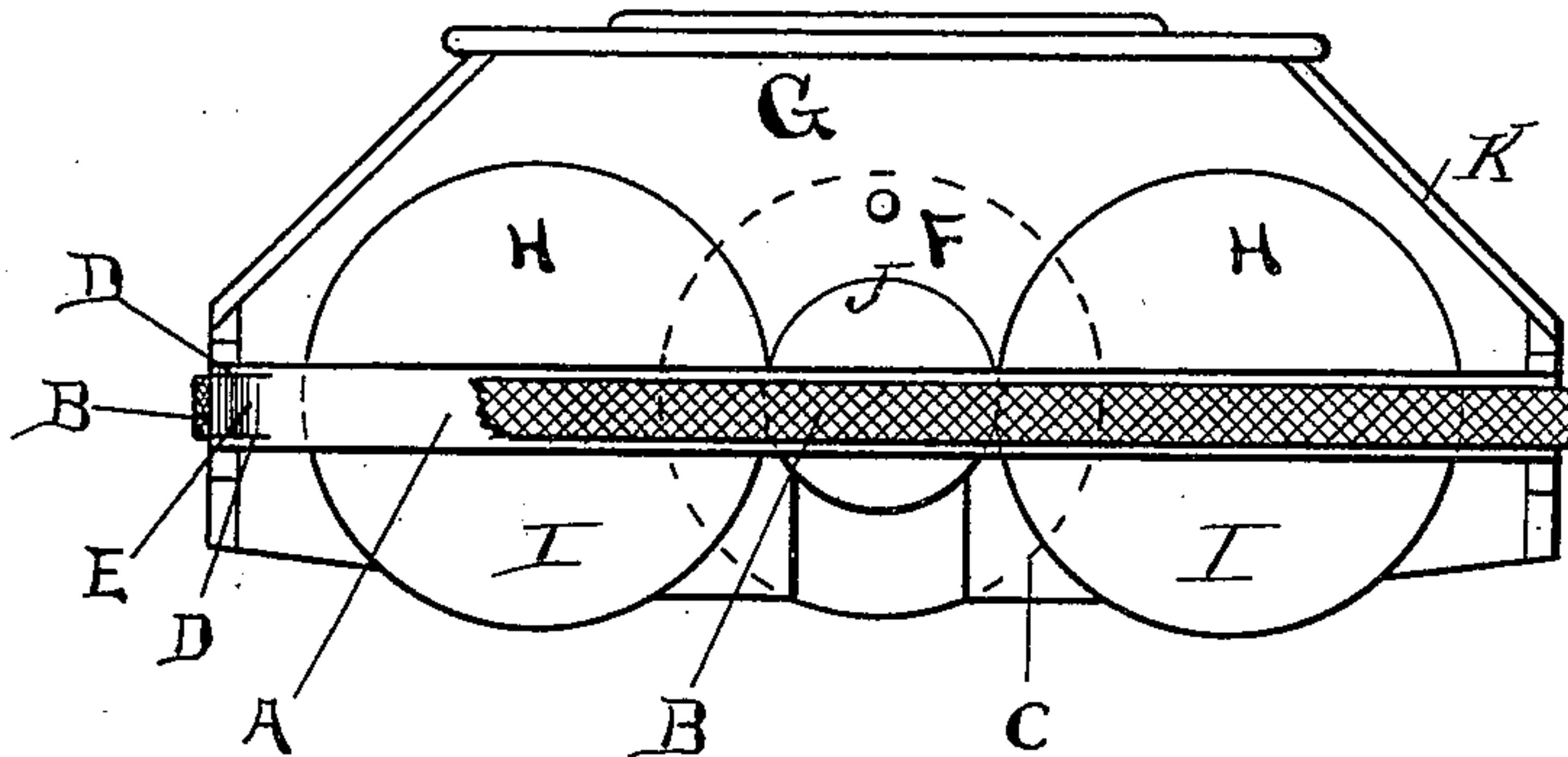


Fig 1

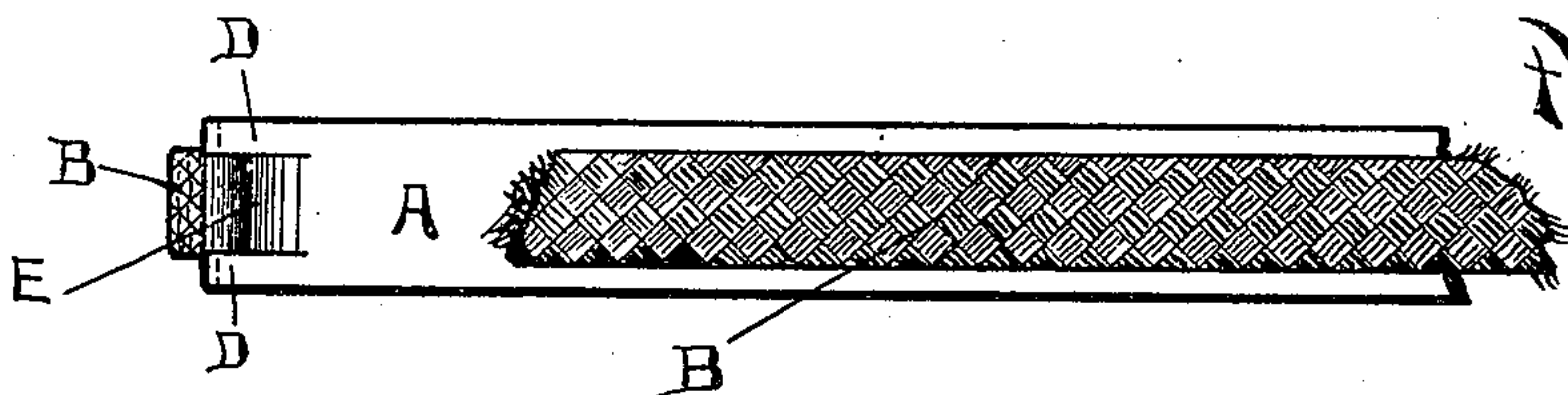


Fig 2

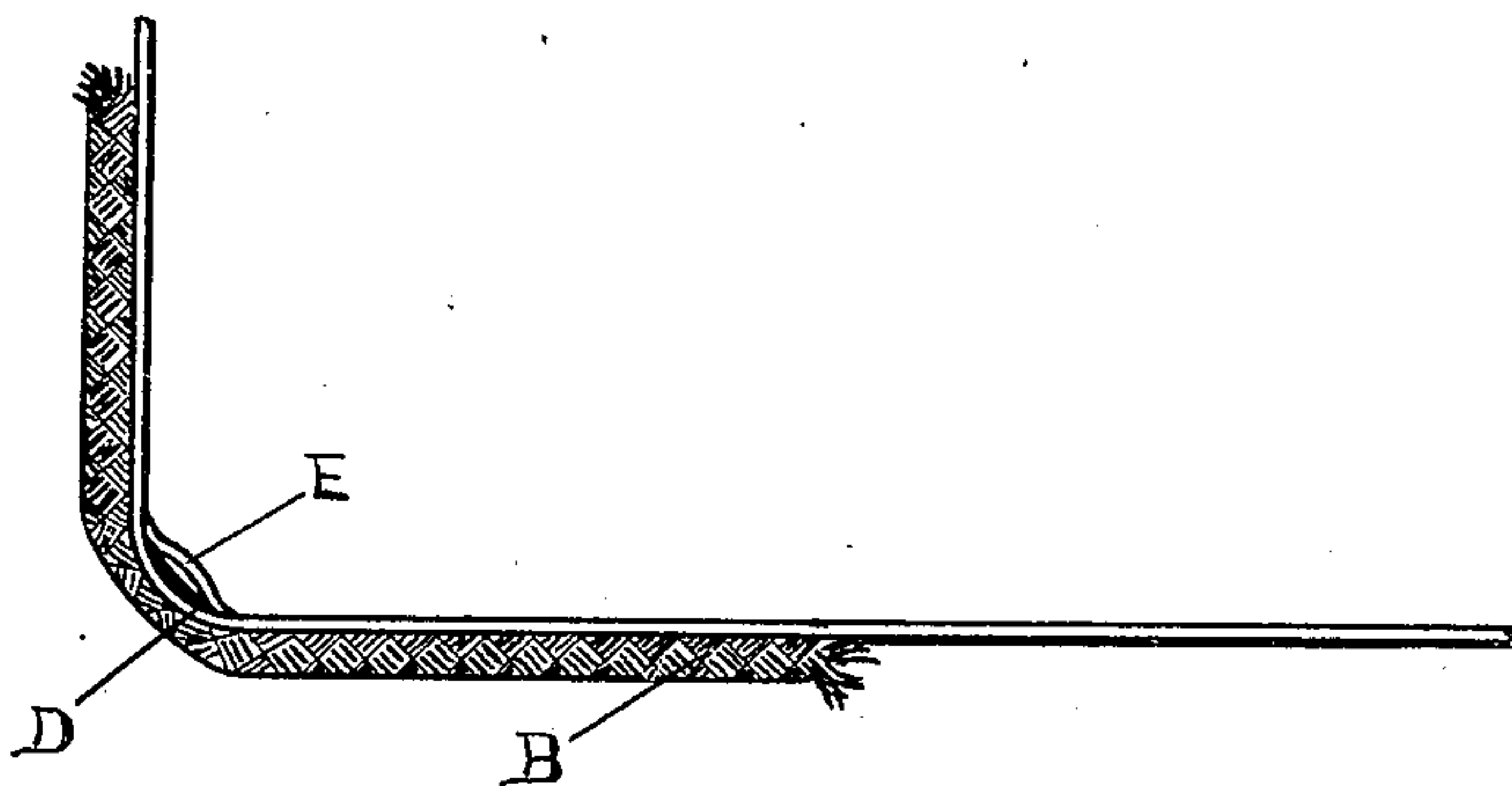


Fig 3

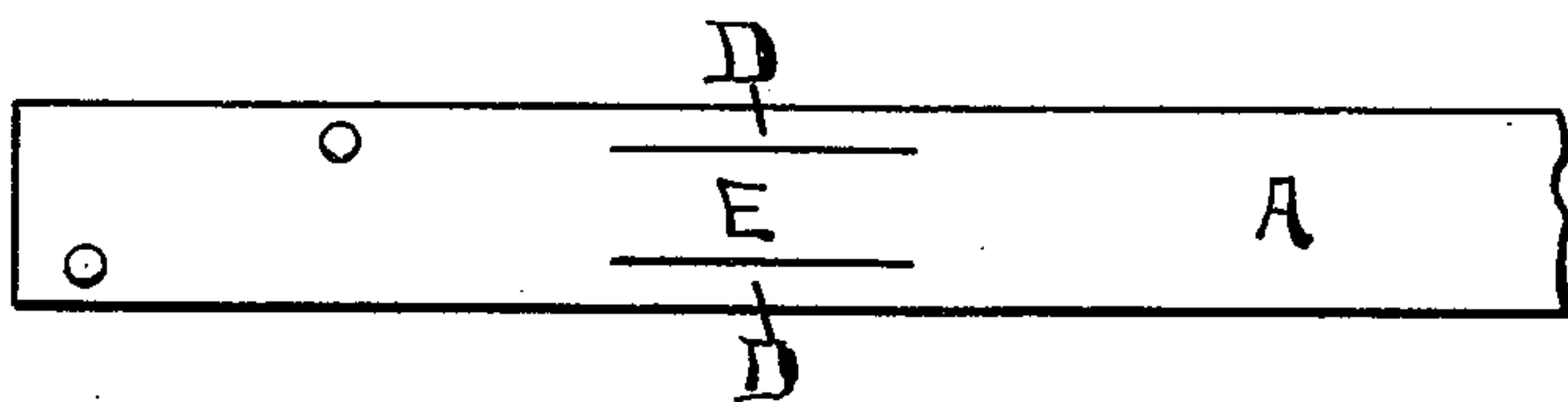


Fig 4

Witnesses

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# UNITED STATES PATENT OFFICE.

JOHN W. SHANAHAN, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR TO THE  
BISSELL CARPET SWEEPER COMPANY, OF SAME PLACE.

## CARPET-SWEEPER.

SPECIFICATION forming part of Letters Patent No. 665,805, dated January 8, 1901.

Application filed September 10, 1900. Serial No. 29,570. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN W. SHANAHAN, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented new and useful Improvements in Carpet-Sweepers, of which the following is a specification.

This invention relates to certain new and useful improvements in carpet-sweepers; and the invention consists in the novel construction of the elastic bar which is placed across the end of the sweeper-case outside of the driving-wheels.

The objects of my invention are, first, to so construct the end bar that it will securely retain the furniture protector or buffer in place, and, second, to form a brace at the bent portion of the end bar made integral with the elastic strap and at the same time to form an easy and cheap method of securing the buffer in place on the elastic end strap. These objects I accomplish by means of the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is an end elevation of a carpet-sweeper containing my invention. Fig. 2 shows an elevation of the elastic end strap or bar removed, with a portion of the buffer cut away to show the method of constructing the brace and buffer-retaining mechanism. Fig. 3 shows a top view of a portion of the elastic end bar, with the buffer in position. Fig. 4 shows a plan view of the blank from which the end bar is made.

Similar letters refer to similar parts throughout the several views.

K represents the sweeper-case, and I I the driving-wheels.

J represents the brush-roller.

A represents the elastic bar, which passes across the end of the case outside of the drive-wheels. The elastic bar has its ends bent or curved so that they extend around and embrace the sides of the sweeper-case in position to be fastened to the sides of the case by screws or other suitable means.

B is the buffer, which extends around the sweeper-case and end bar in order to prevent any injury to furniture by contact with the sweeper-case. This buffer is composed of braid, cord, india-rubber, or any other suitable material.

At the curved portion I cut two slits, as

shown in Fig. 4, and when the bar is bent or struck up into shape the part between the slits is bent inwardly, as shown by E in Fig. 3, while the part on the outside of said slits forms the curved portions shown by D D in Figs. 1, 2, and 3. The brace E should be of less width than the buffer, so that when the buffer is applied its central portion will sink into the opening between D and D, while its edges will be supported on the outer surfaces of D and D. By this construction the end bar has its curved portion made more rigid at the point where it is most likely to be bent and injured by contact with furniture. At the same time the bar is adapted to retain the buffer securely in position at the point where it is most difficult to retain it.

Having thus described my invention, what I claim to have invented, and desire to secure by Letters Patent, is—

1. In a carpet-sweeper, the combination with the sweeper-case, of the elastic end bar bent at its ends to embrace the sides of the sweeper-case and provided at its bent portions with two parallel longitudinal slits, that portion lying between the slits being bent inwardly to form a brace, and the portion outside the slits being curved outwardly, substantially as described, and for the purpose specified.

2. In a carpet-sweeper, the combination with the sweeper-case, of the elastic end bar bent at its ends to embrace the sides of the sweeper-case and provided at its bent portions with two parallel longitudinal slits, that portion lying between the slits being bent inwardly to form a brace and the portions outside the slits curved outwardly, and a buffer of yielding material stretched around the sweeper-case and over said strip, said buffer being of greater width than the braces whereby a portion of the buffer will protrude through the slots over the braces and a portion will rest on the curved parts on each side of the slots, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN W. SHANAHAN.

Witnesses:

EDWARD TAGGART,

ELIZABETH J. PHILLIPS.