

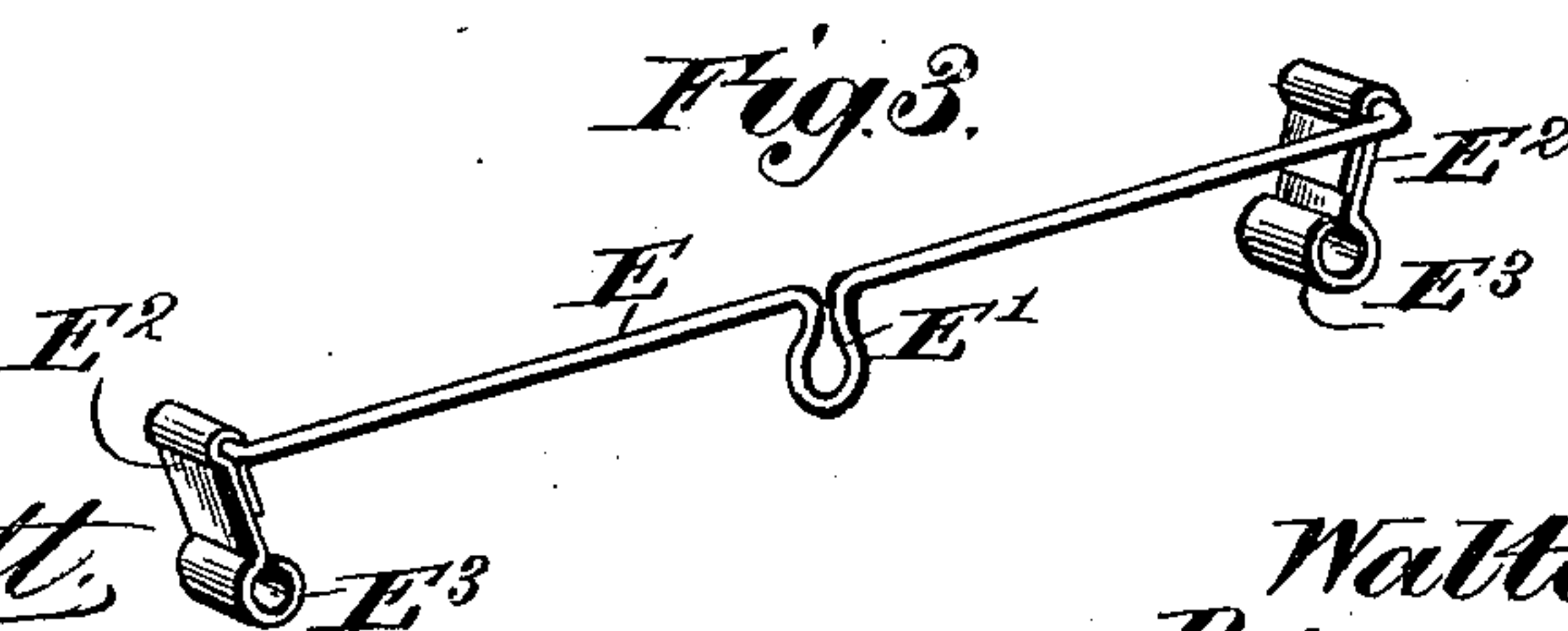
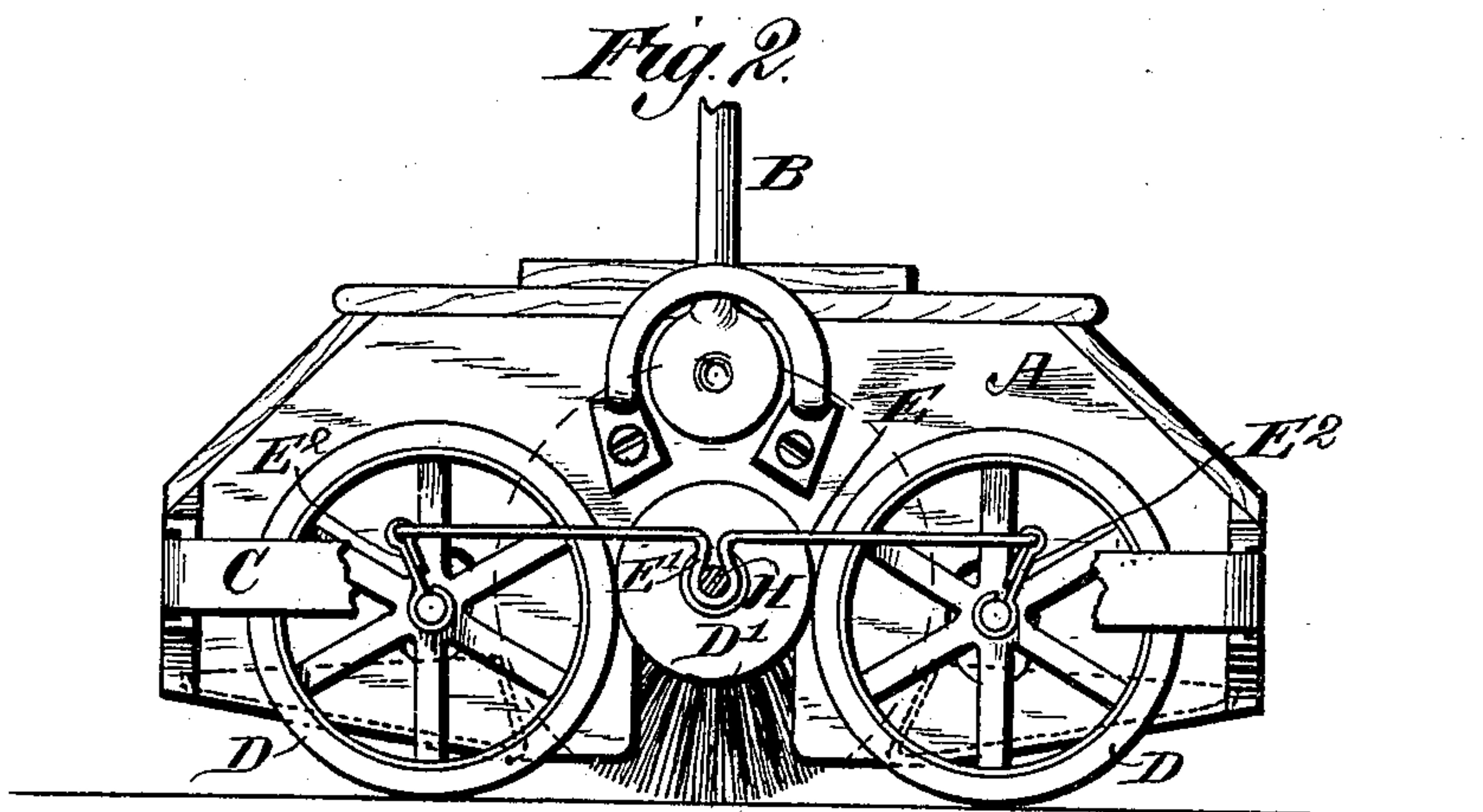
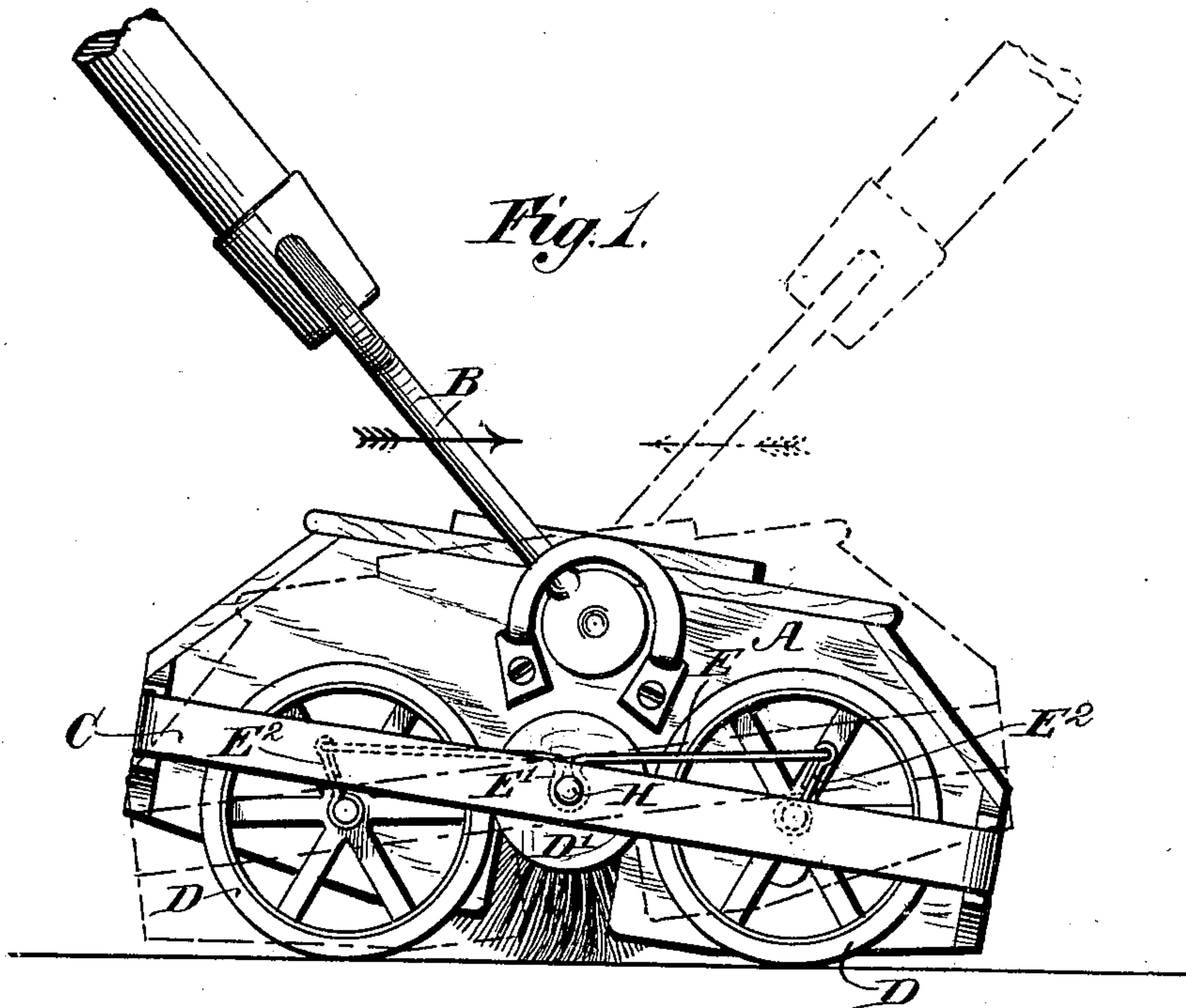
No. 621,639.

Patented Mar. 21, 1899.

W. J. DREW.
CARPET SWEEPER.

(Application filed July 2, 1897.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

WALTER J. DREW, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR TO THE
BISSELL CARPET SWEEPER COMPANY, OF SAME PLACE.

CARPET-SWEEPER.

SPECIFICATION forming part of Letters Patent No. 621,639, dated March 21, 1899.

Application filed July 2, 1897. Serial No. 643,281. (No model.)

To all whom it may concern:

Be it known that I, WALTER J. DREW, a citizen of the United States, residing at the city of Grand Rapids, in the county of Kent and State
5 of Michigan, have invented certain new and useful Improvements in Carpet-Sweepers, of which the following is a specification.

This invention relates to carpet-sweepers, and has for its objects to provide new and
10 improved means for lowering the dust-pans alternately by rocking the sweeper-case on its pivotal supports, to provide a new and improved construction whereby either dust-pan
15 will be lowered with the sweeper-case at the side which receives dust swept up by the brush in moving the sweeper over the carpet, and to provide a new and improved wheel-sup-
20 porting device. These objects are accomplished in the manner and by the means hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 shows an end view of a carpet-sweeper constructed in accordance with my
25 invention, the solid lines showing the position of the sweeper-case when the sweeper is moved in the direction indicated by the arrow and the dotted lines showing the position of the sweeper-case when the sweeper is moved
30 in the opposite direction. Fig. 2 shows an end view of the sweeper-case with the brush-supporting strip or band removed in order to illustrate more fully my preferred form of wheel-supports. Fig. 3 is a detail perspec-
35 tive view of the wheel-support.

Similar letters refer to similar parts throughout the several views.

The case A of the sweeper may be constructed in any suitable manner and is provided with the bail B. Strips or supports C,
40 extending across the ends of the sweeper-case in the example of my invention illustrated in the drawings, carry pintles H, which form journal-supports for the brush-roller D'. As
45 illustrated, the pintles H also afford a pivot-bearing for the sweeper-case, by means of which said case may be rocked or oscillated; but it is not essential to my invention to use
50 the journal of the brush-roller as the pivotal support for the sweeper-case.

D D represent the drive-wheels, of any suitable construction.

E represents what I term the "wheel-support," which in the example of my invention shown in the drawings is constructed of wire,
55 but may be constructed of any suitable material, and is provided in its central portion with a loop or eye E', in which is supported the pintle H, and at its ends with arms E², having journal-bearings E³, in which are sup-
60 ported the journals of the drive-wheels D D. The arms E² are placed at an incline, so that the wheel is pressed against the brush-roller when pressure is applied to the sweeper-case
65 through the handle. A wheel-support E is of course provided at each end of the case.

F F represent the dust-pans, which are supported in the case A in any suitable manner and are moved up and down by the rocking of
70 the case.

G represents the brush.

In the simplest form of construction I use the journal of the brush-roller as a pivot on which the sweeper-case oscillates; but the
75 sweeper-case may oscillate upon any pivotal support, which pivotal support is in turn supported by the driving-wheels.

When the sweeper stands upon the floor or carpet, the driving-wheels support the case, and the case, having its weight supported by
80 the pivots, preferably one at either end, may be rocked readily in either direction by the moving of the sweeper-case backward and forward over the floor by means of the handle of the sweeper, and this rocking motion will
85 alternately lower one pan and then the other pan by the movement of the sweeper. Thus if the sweeper is pushed by the handle in the direction shown by the arrow in Fig. 1 the
90 right-hand side of the sweeper shown in such figure will be lowered, carrying with it the pan on that side of the sweeper, and this pan will be in close proximity to the carpet and in position to receive the dust swept into it
95 by the brush-roller. If the reverse movement is given to the case, the other side of the case, with its corresponding pan, will be lowered to receive the dust, and no dust will be swept beneath the pan which is in position
100 to receive the dust while sweeping. The

pans move with the case and are raised and lowered by the rocking of the case, as above described.

5 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 of a sweeper-case, a brush-roller, driving-wheels, and a pivotal support for the sweeper-case
10 supported by the driving-wheels for the purpose described.

2. In a carpet-sweeper, the combination with the drive-wheels, brush-roller and dust-pans of supports for said drive-wheels having
15 central loops or eyes, and a sweeper-case carrying pintles supported in said loops or eyes, and affording bearings for the brush-roller, substantially as described.

3. In a carpet-sweeper, the combination
20 with the drive-wheels, brush-roller and dust-pans, of supports having at their ends spring-

arms provided with journal-bearings for said wheels and in their central portions loops or eyes, and a sweeper-case carrying pintles supported in said loops or eyes, and affording
25 bearings for the brush-roller, substantially as described.

4. The combination of the driving-wheels, spring-supports upon which the wheels are journaled, brush-roller, sweeper-case having
30 at its ends transverse strips, and pintles or studs carried by said strips engaging with said spring-supports, and also with the brush-roller, and affording a pivot-bearing by means of which the case may be rocked or oscillated,
35 substantially as described.

In witness whereof I have hereunto set my hand and seal in the presence of two witnesses.

WALTER J. DREW. [L. S.]

Witnesses:

EDWARD TAGGART,
LOYAL E. KNAPPEN.