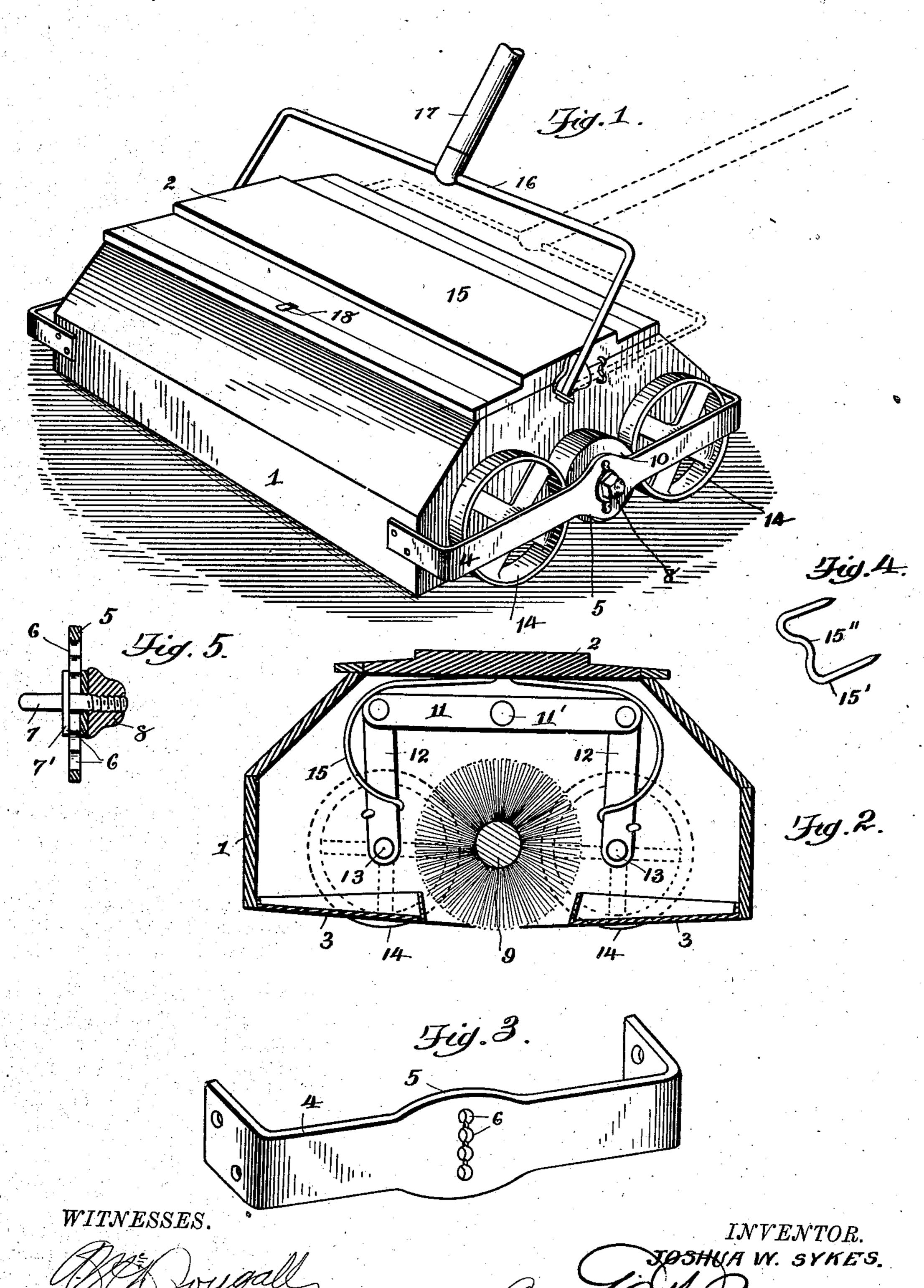
J. W. SYKES. CARPET SWEEPER.

(Application filed Apr. 16, 1897.)

(No Model.)



United States Patent Office.

JOSHUA W. SYKES, OF DETROIT, MICHIGAN.

CARPET-SWEEPER.

SPECIFICATION forming part of Letters Patent No. 617,997, dated January 17, 1899.

Application filed April 16, 1897. Serial No. 632,424. (No model.)

To all whom it may concern:

Be it known that I, Joshua W. Sykes, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Carpet-Sweepers; and I do hereby 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 appertains to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to new and useful improvements in carpet-sweepers; and it consists in the construction and association of parts, as hereinafter fully set forth, and pointed out particularly in the claims.

carpet-sweeper that shall be cheap and simple of construction and one that may be readily opened and easily cleaned, said sweeper having stationary pans and means for effecting a vertical adjustment of the brush, also a spring tension, normally applied, to keep the traction-wheels in contact with the ends of the shaft of said brush, which object is attained by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a general perspective view of a carpet-sweeper as made in accordance with my invention. Fig. 2 is an enlarged transverse section through Fig. 1. Fig. 3 is a detail in perspective of the plate wherein the vertical adjustment of the b: .sh is accomplished. Fig. 4 is a detail of the spring employed for holding the sweeper-box in position while the pans are being dumped or cleaned. Fig. 5 is a detail of the bearing-trunnions.

Referring to the numerals of reference, 1 designates the box of the sweeper, which may be of a pattern common to carpet-sweepers, said box having a cover 2, hinged thereto, and stationary dust-pans 3, which extend across a portion of the bottom thereof.

4 represents plates which are secured to the ends of the sweeper-box, said plates having angled ends and a central enlarged portion 5, said portion 5 having a corrugated slot

6 therethrough for a purpose hereinafter set forth.

7 indicates trunnions or pins having a flange 7' formed integral therewith. Intermediate of its ends the rear end of said trun- 55 nions from said flange is threaded, as clearly shown in Fig. 5. The threaded portion of said trunnions is of such size as to snugly pass through the various enlargements 6 of the corrugated slot in bar 4 and to receive a 60 washer or nut 8 thereon. It will be understood that an angled plate similar to plate 4 will be secured at each end of the sweeperbox, and a trunnion device, as shown in Fig. 5, will be secured in corresponding openings 65 in said bar 4, so that said trunnions will project inward toward box 1.

9 represents a shaft which extends longitudinally through box 1, said shaft having bristles projecting radially from its portion 70 within said box, which bristles and shaft form the sweeping-brush, the outer ends of said shaft being formed into rollers or disks 10, one only being shown. (See Fig. 1.) Said disks are provided with central cavities of 75 such depth and size as to snugly receive trunnions 7, upon which they and said shaft are adapted to be revolved.

11 indicates a bar, one of which is pivoted centrally at 11' in each end of box 1. Piv-80 oted to the ends of said bar 11 and depending therefrom are arms 12. Frojecting outward through box 1 from the lower ends of said arms 12 are pins 13, upon which the rubber-tired traction-wheels 14 are journaled. 85 Secured in the upper side of box 1 is a springbail 15, the extremities of which are wrapped about arms 12, and the spring tendency of said bail being such as to cause said arms to be thrown inward, carrying therewith wheels 90 14 and causing their rubber tires to impinge upon disks 10.

It will be seen by reference to Fig. 2 that arms 12 extend inward from a vertical line with their pivotal connections with bar 11, 95 which causes wheels 14 to have a tendency to run inward or toward each other as the weight of the sweeper rests thereupon, as will be readily understood

will be readily understood.

15' designates a spring-wire device, one of 100

which is secured in the outer ends of box 1, said device having a central depressed portion 15", into which the sides of frame 16 of operating-handle 17 are adapted to enter to hold the sweeper-box and said handle in the position shown by dotted lines in Fig. 1. When in this position, catch 18 is operated to release cover 2, when said cover may be opened and the sweeper held at arm's-length and thoroughly cleaned or dumped without the liability of dust being inhaled by the operator or said dust settling upon one's clothing.

It will be understood that by loosening the screws (not shown) which pass through the 15 slots in the angled portions of plates 4 to secure them to the ends of the sweeper-box said plates, as well as the brush journaled thereto, may be gradually lowered, thus maintaining the brush at an even elevation, so that all 20 wear thereof may be compensated for. If desired, this adjustment may be accomplished, to a certain extent, by raising or lowering the bolts of trunnions 7 in the series of openings 6 of the enlarged portions 5 of plates 4. This means for the two fold adjustment of the brush forms a special and important feature of my invention.

It will thus be seen that the construction and arrangement of parts hereinbefore set 30 forth produces a carpet-sweeper that may be very cheaply manufactured, as its parts are

few and comparatively simple in formation and one which is not liable to get out of repair.

Having thus fully set forth my invention, 35 what I claim as new, and desire to secure by

Letters Patent, is—

1. In an attachment for sweepers, the combination of an end plate having a corrugated slot formed therein, a journal-pin provided 40 with a reduced threaded stem adapted to engage with said corrugations whereby the journal-pin is held from movement in said slot longitudinally thereof, and a nutarranged to engage the outer threaded end of said stem, 45 substantially as described.

2. A driving mechanism for the cylindrical brushes of carpet-sweepers, the same consisting of a box having levers pivoted centrally therein, depending arms pivoted to said leto vers, traction wheels journaled upon pins projecting from said arms, and curved springs secured in said box, its ends being adapted to move the free ends of said arms toward each other, substantially as and for the purpose 55 set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JOSHUA W. SYKES.

Witnesses:

H. ROSCOE WHEELER, FRANK S. WHEELER.