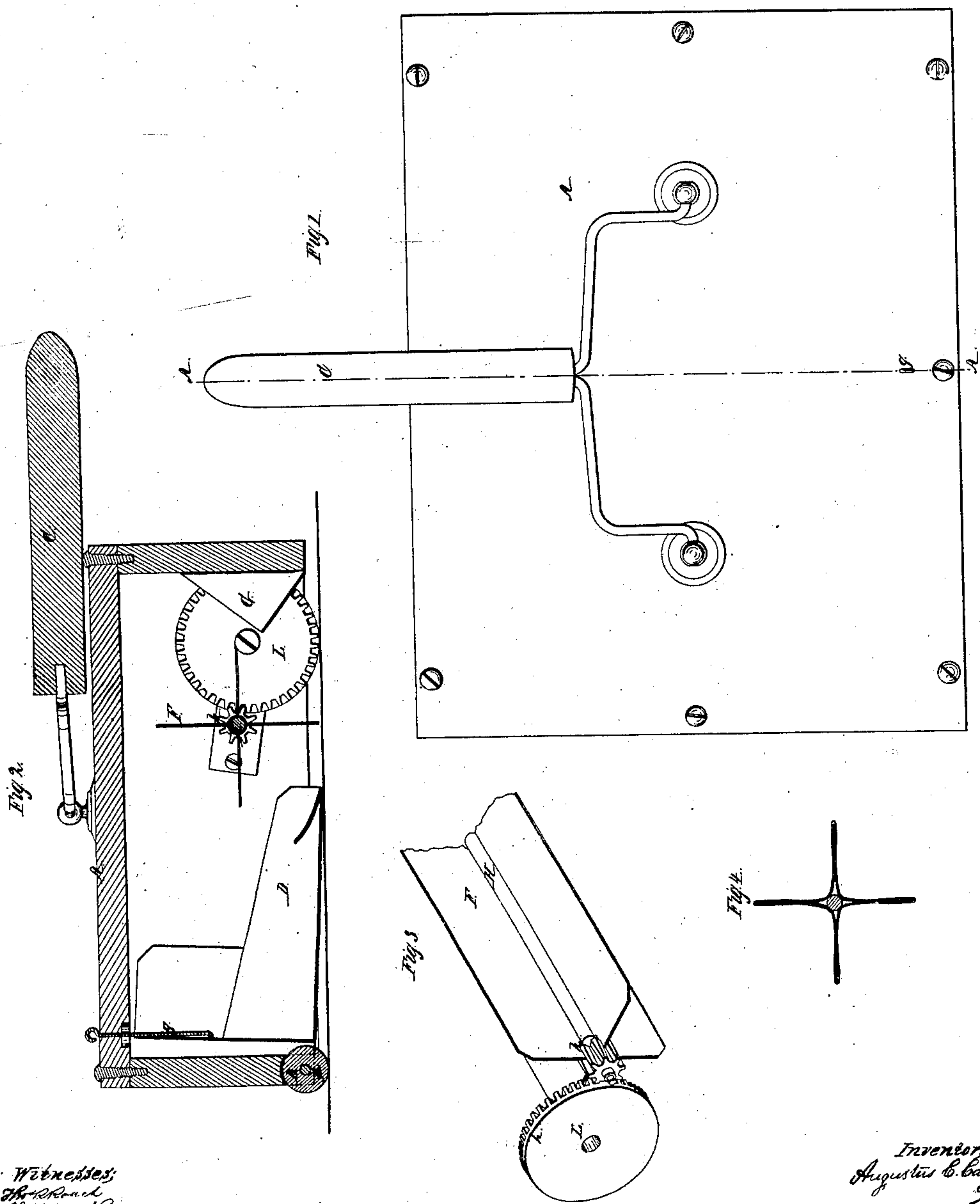


A. C. Carey,
Carnet Sweeper,

N^o 22,488.

Patented Jan. 4. 1859.



Witnesses:
Wm. R. R. R. R.
Wm. R. R. R. R.

Inventor:
Augustus C. Carey

UNITED STATES PATENT OFFICE.

AUGUSTUS C. CAREY, OF LYNN, MASSACHUSETTS.

CARPET FAN-SWEEPER.

Specification of Letters Patent No. 22,488, dated January 4, 1859.

To all whom it may concern:

Be it known that I, A. C. CAREY, of Lynn, in the county of Essex and State of Massachusetts, have invented certain Improve-
5 ments in Machines for Sweeping Carpets and Floors, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

10 Figure 1, is a plan. Fig. 2, a section upon the line A, A, of Fig. 1. Fig. 3, detached view of the driving wheel and fan. Fig. 4, a modification of the fan shown in section.

The carpet sweepers heretofore contrived
15 have operated by means of a cylindrical brush which revolved in contact with the surface of the carpet. And it has been found that the wear upon the carpet produced by the rapidly revolving brush is very
20 considerable.

To avoid this objection is the object of my present invention which consists in the employment of a revolving fan in lieu of the brush, the fan being so adjusted as not
25 to come in contact with the carpet, but to revolve in close proximity thereto, by which the dust and dirt, and even pins, needles, tacks, or fragments of paper are all blown into the pan or receptacle and without caus-
30 ing any damage or wear to the most delicate tapestry carpet.

In the accompanying drawings, A, is the box which is supported at its forward end by the caster B, and is driven forward by
35 the handle C, in the customary manner. The dust pan D, is hinged to the front end of the box at *f* and is held in position by the pin *g*, which is partially withdrawn when the pan is to be emptied—the position of the
40 pin being such that when the sweeper is in operation it shall rest upon the floor immediately in advance of the fan. This fan is seen at F, and is formed of four or any suitable
45 number of blades of sheet metal attached to a shaft H. This shaft runs in bearings in the sides of the box and at one end carries a pinion *k*, that engages with the driving wheel L, which rests upon the floor or carpet as the machine is impelled along. The

blades of the fan are set so as to revolve 50 very near to the surface of the carpet but without touching it—by which motion of the fan as before stated the dust is blown into the pan, and the carpet is cleaned even
55 more perfectly than can be effected by a revolving brush. Still further to protect the carpet and to enable the fan to be dropped very nearly into contact with its surface I propose forming the blades of the fan of
60 double metal as in Fig. 4, or by bending over the edge of the blades so as to form a round edge, that can in no wise cut or injure any projecting portion of the carpet with which it may come in contact.

In order to protect the carpet from expe- 65 riencing injury from the teeth of the driving wheel L, the latter is formed with a flange *h*, the periphery of which reaches to the extreme periphery of the teeth and prevents them from sinking into the carpet and in-
70 denting or injuring it.

At G, is a secondary dust pan to the rear of the pan to receive any dust that may be carried over by the revolution of the fan.

Thus far I have spoken of my improved 75 fan as particularly applicable to sweeping carpets, but it is evident that it may also be employed upon machines for sweeping walks or even streets and for gathering leaves from the surfaces of lawns. I do not there-
80 fore confine myself to its use simply as a carpet sweeper.

I do not claim the employment of a fan in a sweeping machine, for the purpose of conveying the dust to the receptacle after it
85 has been swept up by a revolving brush but

What I do claim as my invention and desire to secure by Letters Patent as an improvement in sweeping machines, is—

The use of a fan F for the purpose of 90 sweeping the carpet or other surface in place of the revolving brush heretofore employed for the purpose.

AUGUSTUS C. CAREY.

Witnesses:

P. E. TESCHEMACHER,
SAM. COOPER.