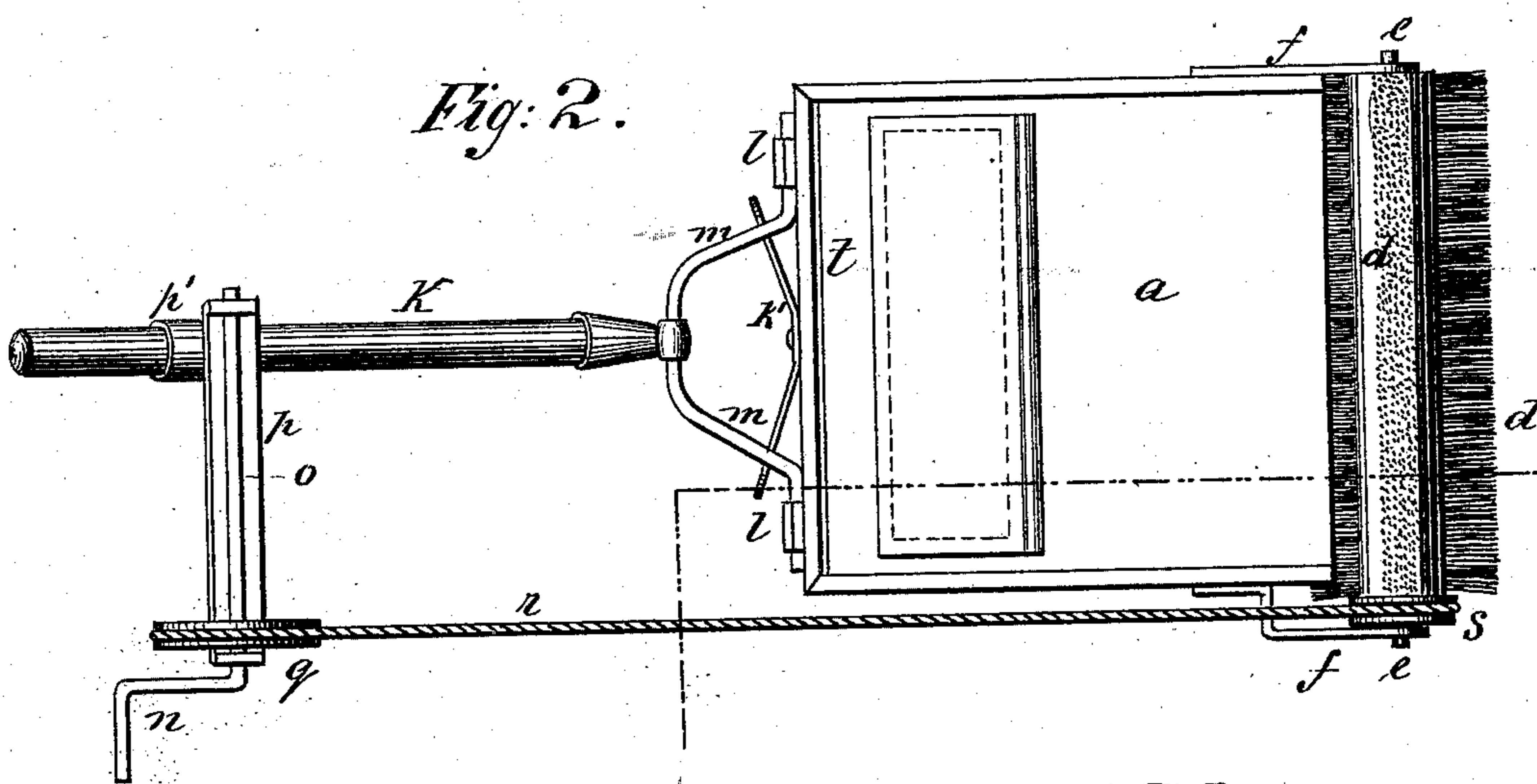
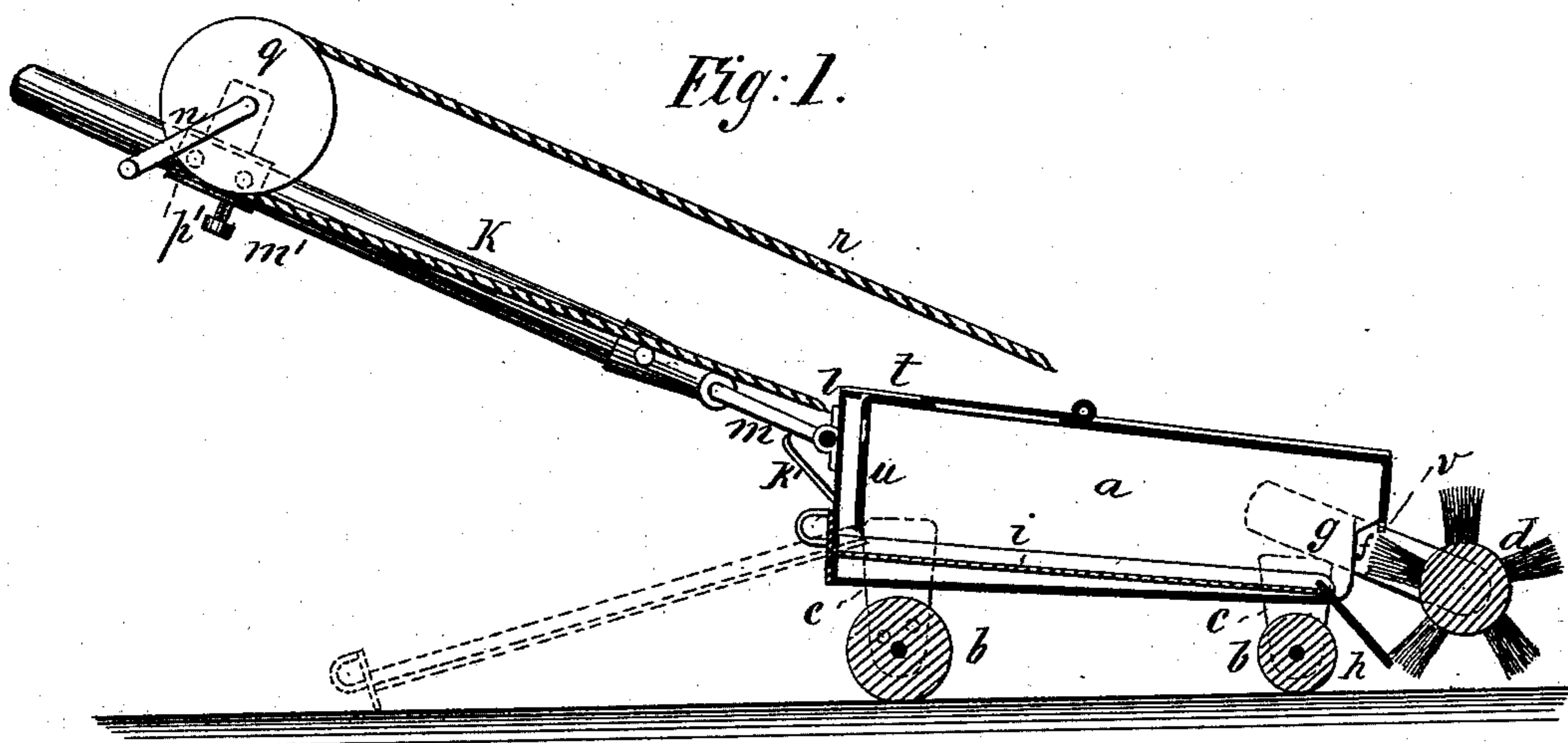


I. A. CHOMEL.
Sweeping-Machine.

No. 209,379.

Patented Oct. 29, 1878.



WITNESSES:

Achilles Schehl.
C. Sedgwick

INVENTOR:

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UNITED STATES PATENT OFFICE.

ISAAC A. CHOMEL, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN SWEEPING-MACHINES.

Specification forming part of Letters Patent No. 209,379, dated October 29, 1878; application filed July 15, 1878.

To all whom it may concern:

Be it known that I, ISAAC ANTOINE CHOMEL, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Dirt and Dust Sweeper and Collector, of which the following is a specification:

My invention relates to apparatus for sweeping up and collecting dirt, dust, and other refuse from floors, carpets, streets, and other places.

The invention will first be described in connection with the drawing, and then pointed out in the claims.

In the accompanying drawing, Figure 1 is a longitudinal section of my apparatus in a form adapted for use in a house by hand, and Fig. 2 is a plan of the same.

Similar letters of reference indicate corresponding parts.

a is a rectangular box of convenient size, closed at the top. This is mounted upon rollers *b b*, which have bearings in plates *c c* at the sides of box *a*.

d is the brush-head, held in front of the forward end of the box *a* by its trunnions *e*, which pass at each end of the brush-head into arms *f*. I prefer to arrange the brushes in rows at intervals on the brush-head, as shown, and the brush-head is to be adjusted so that the brush portion barely touches the surface to be swept. As a convenient means for adjusting the brush when worn, the plate *c*, supporting the rear roller *b*, should be provided with two or more holes for the shaft of *b*, so that this roller may be changed to elevate the rear end of box *a* and lower the brush.

g is an opening across the forward end of box *a*, and *h* is a flange or lip inclining downward from the bottom edge of the opening *g*, just behind the brush. *i* is a drawer, which slides in at the back of box *a*. Its inner end terminates behind the lip *h*. The lip *h* projects slightly above the bottom of *i*, to form an edge for the retention of the dirt.

K is a handle by which the apparatus is to be drawn or pushed. This handle is hung at the back end of box *a* on pivot-eyes *l*, into which the wire arms *m* pass, so that the han-

dle may swing up or down. *k'* is a stop to support the handle and limit the distance it may be dropped, and by pressing upon the handle when it rests on *k'* the brush is raised entirely from the floor.

n is a crank-handle, having its shaft *o* supported by a flanged plate, *p*, attached to handle by a thimble, *p'*. The thimble *p'* slides upon the handle to permit adjustment of the plate *p* and handle *n*, according to the convenience of the operator, and it is clamped in position by a set-screw, *m'*.

q is a grooved pulley fast upon shaft *o*, and *r* is a belt passing from *q* to a pulley, *s*, formed upon the end of brush-head *d*. The belt *r* should be slightly elastic to compensate for variations in the position of the handle, and when the brush is passing over a place which needs to be swept very hard the handle is to be depressed to bind the belt more tightly on the pulleys.

t is a slit across the top of box *a*, near the rear end, for the air to pass out as it is displaced by the action of the brush. I provide a flange, *u*, from the top of box *a*, inside of the same, to form a space beneath the slit *t*, into which space a sponge is placed, and the air, as it passes through the sponge, is filtered of the dust.

It will be seen that the box *a* is to be rolled over the floor and the brush revolved by the winch *n*. The speed of the brush is therefore independent of the motion along the floor, or the direction in which the apparatus is rolled.

By placing the brush outside of the box *a*, I am enabled to make it larger than the box, and the brush extends the full width of the apparatus, so that the corners and edges of a floor can be thoroughly swept. The dust and dirt are thrown by the brush through the opening *g* onto the drawer *i*, which can be pulled out and emptied when necessary.

The edge above the opening *g* is serrated to form a comb, as seen at *v*, which acts to remove threads, hairs, or similar material from the brush.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination of a rotary sweeper, a wheeled box, open at front and rear, and a sponge arranged between said box-openings, as and for the purpose specified.

2. The receptacle for sponge or similar material, in combination with the slit *t* in the box *a*, as set forth.

3. The swinging handle *K* and stop *k'*, pul-

leys, belt, and brush, in combination with the dirt-receptacle of a sweeping apparatus, for the purposes described, and substantially as set forth.

ISAAC ANTOINE CHOMEL.

Witnesses:

C. SEDGWICK,

GEO. D. WALKER.