

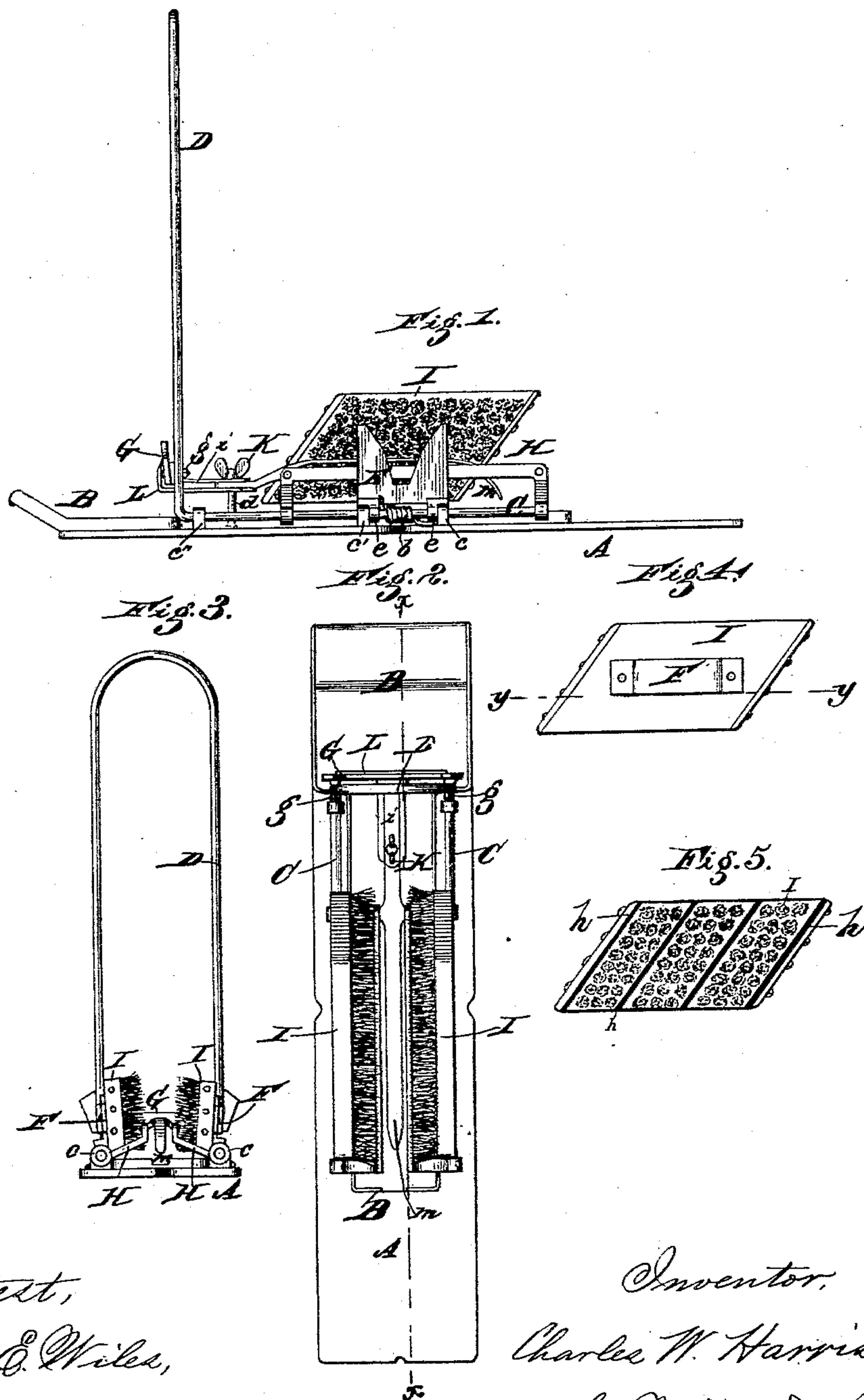
(Model.)

2 Sheets—Sheet 1.

C. W. HARRIS.
BOOT AND SHOE CLEANER.

No. 303,845.

Patented Aug. 19, 1884.



Attest,
Jno. C. Wiles,
A. Gluchowsky.

Inventor,
Charles W. Harris
by Wood & Boyd
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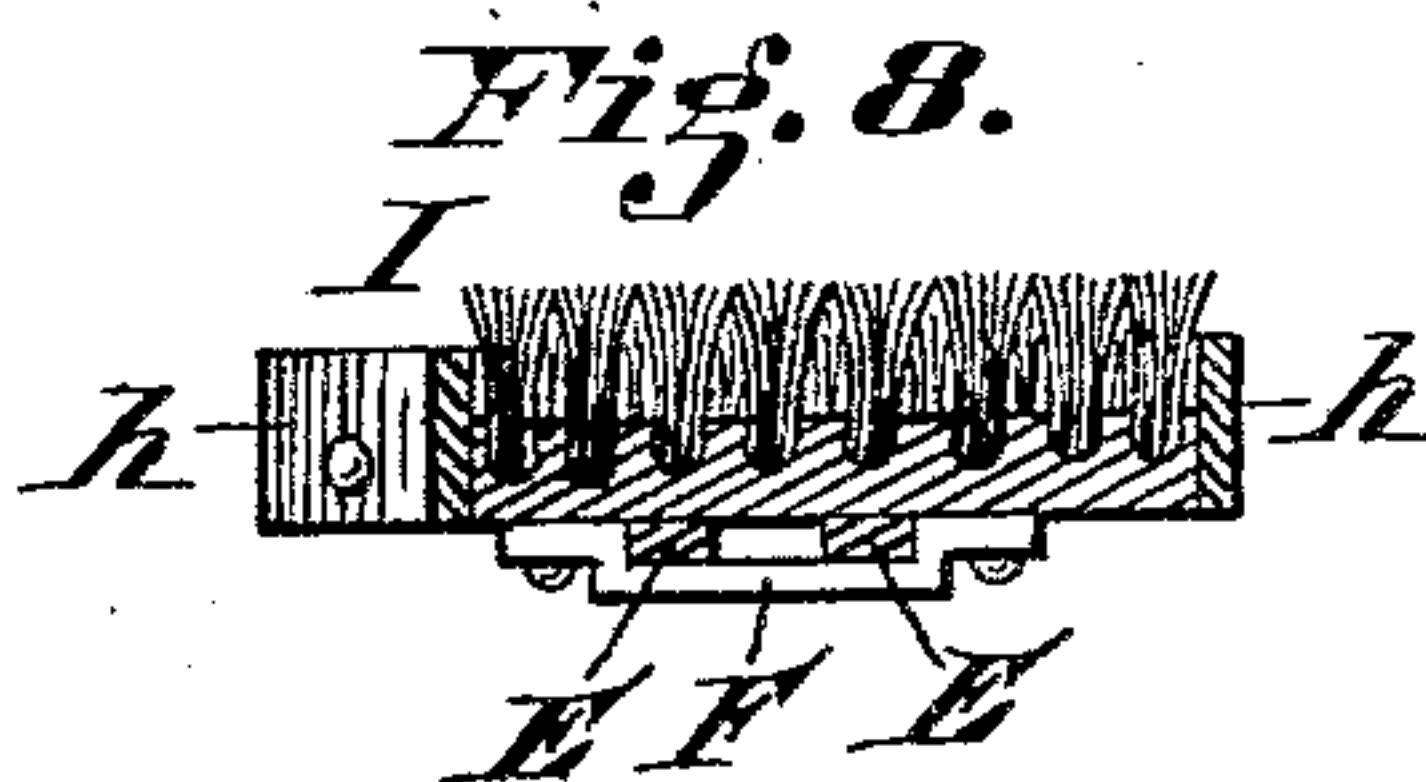
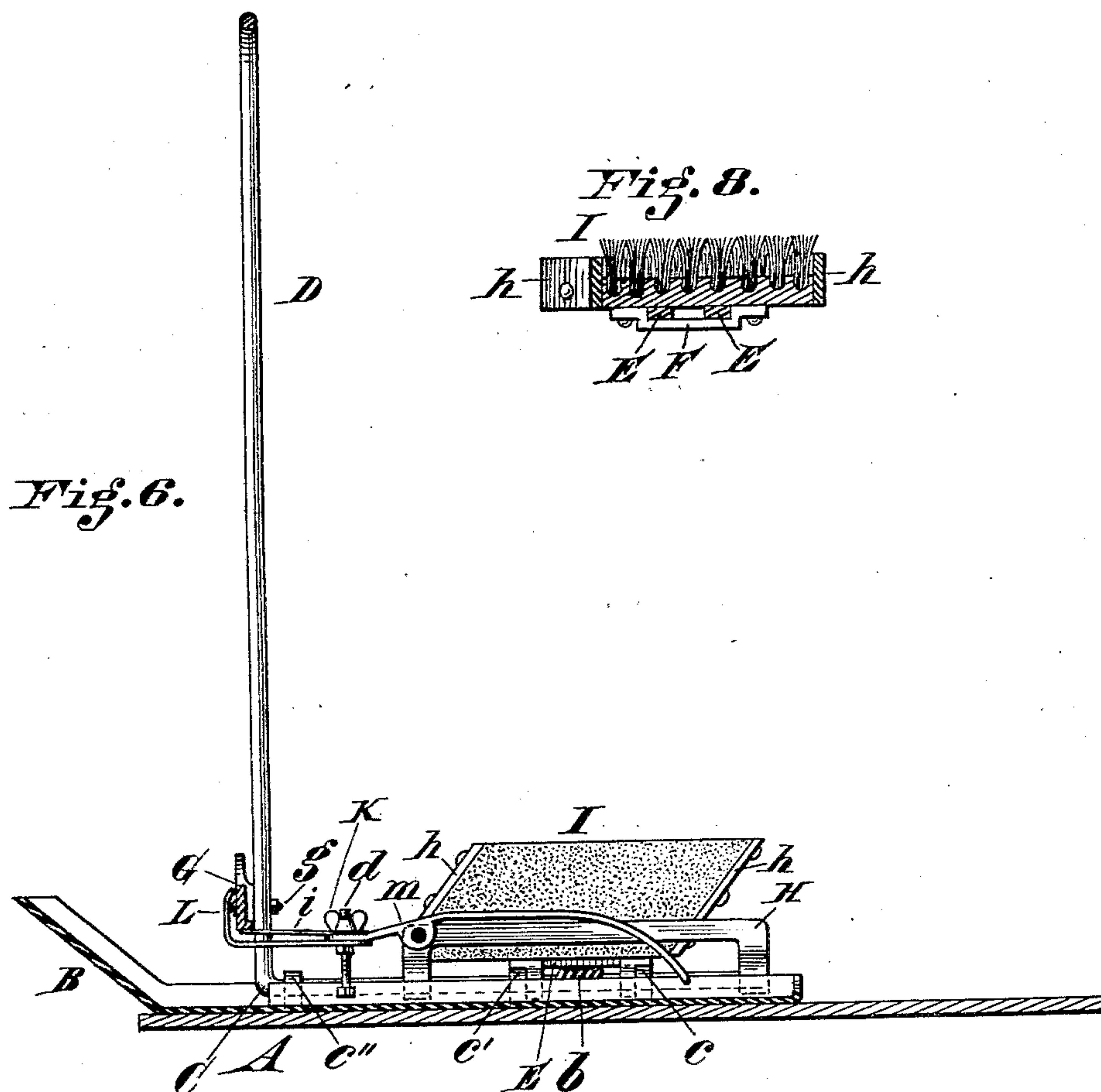
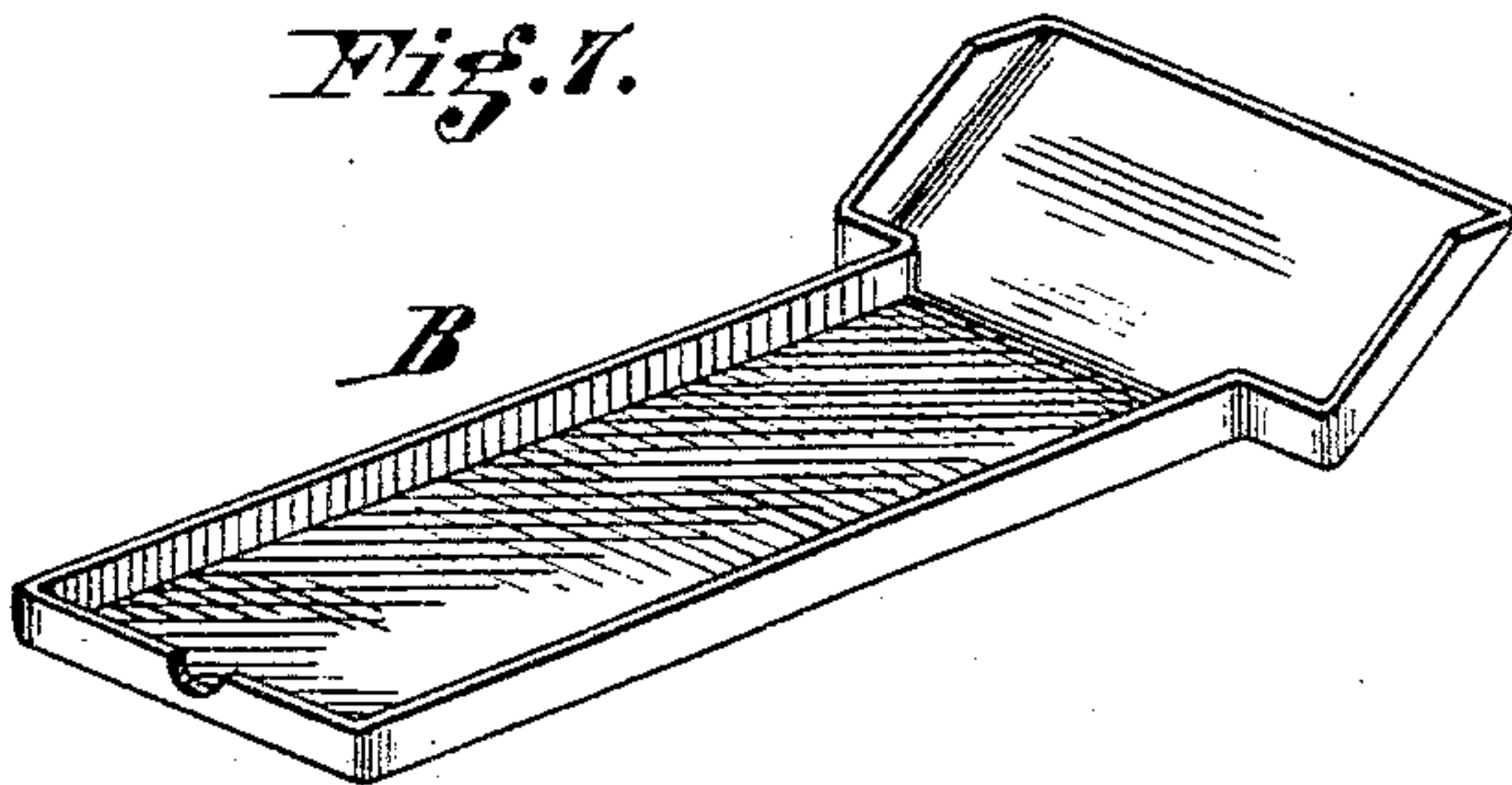


Fig. 7.



Attest
per E. Jones
A. Gluchowsky

Inventor
Charles W. Harris,
by Wood & Boyd
his Attorneys &c.

UNITED STATES PATENT OFFICE.

CHARLES W. HARRIS, OF SIDNEY, OHIO, ASSIGNOR OF ONE-HALF TO GEORGE C. ANDERSON, OF SAME PLACE.

BOOT AND SHOE CLEANER.

SPECIFICATION forming part of Letters Patent No. 303,845, dated August 19, 1884.

Application filed September 10, 1883. (Model.)

To all whom it may concern:

Be it known that I, CHARLES W. HARRIS, a citizen of the United States, and a resident of Sidney, in the county of Shelby and State of Ohio, have invented certain new and useful Improvements in Combined Boot or Shoe Scraper and Cleaner, of which the following is a specification.

My invention relates to an improvement in a combined boot and shoe scraper and cleaner.

The object of my invention is to provide a utensil for easily scraping off dirt and mud from the soles of boots and shoes, and providing means for brushing off the uppers above the sole, all of which will be fully set forth in the description of the accompanying drawings, in which—

Figure 1 is a side elevation of my improvement with one of the cleaning-brushes removed. Fig. 2 is a plan view of the same, with both brushes in place. Fig. 3 is a rear elevation of the same. Fig. 4 is a plan view of one of the brushes. Fig. 5 is an elevation of the preferred form of brush, showing strips of rubber intermingled with the bristles. Fig. 6 is a central longitudinal sectional elevation of my device, taken on line *x x*, Fig. 2. Fig. 7 is a detail perspective view of the removable dirt-tray. Fig. 8 is a longitudinal section of one of the brushes, taken on line *y y*, Fig. 4.

A represents the base-plate of my device.

B is a removable tray or pan resting on the base-plate vertically under the scraper and brushes for catching the dirt.

C C represent rods attached to the base-plate A by means of ears *c c' c''*, the forward ends of which rods are bent upward, as shown in Figs. 1, 3, and 6, to form a bail in convenient reach of the operator for him to grasp and hold the device while cleaning the shoe.

E E represent wings hinged on rods C C, between the ears *c c'*.

b b represent spiral springs wound around rods C, the upturned arms of which springs bear against wings E, and hold them in a vertical position, as shown in Fig. 3.

G represents an ordinary shoe-sole scraper, securely bolted to the bail-rods D by bolts *g*.

H H represent bars, which are shown se-

cured on rods C, and bent inwardly, as shown in Fig. 3, to form a support or foot-rest between the brushes I I.

L represents a knife or cleaner secured to lever *m*, which lever is pivoted to rests H, and extends rearwardly between the said foot-rests H, but raised slightly above the plane of the rests, as shown in Fig. 6.

K is a thumb-nut on the upper end of bolt *d*. *i* is a spring-plate secured at one end by thumb-nut K to the forward end of lever *m*, and bearing at its free end against the lower edge of scraper G to hold the cleaner L below the upper edge of said scraper G. The lower end of bolt *d* acts as a stop to limit the downward movement of the forward end of lever *m* and the cleaner L.

I I represent shoe-brushes, which are detachably secured to wings E by means of loop-plates or straps F, or other suitable convenient means. The springs *b* hold the brushes in a vertical position, but in a yielding position, so that when the user draws his foot between the brushes I I they will yield enough to let the foot pass between them, while the springs cause the brushes to press upward against the foot and clean the mud and dirt therefrom.

The knife or cleaner L is provided for the purpose of cleaning the scraper G. As the operator's foot comes in contact with lever *m*, it depresses the lever, and thereby raises knife L, which bears like a shear-blade and presses against the front face of scraper G, removing the dirt or mud therefrom, which drops into tray B underneath. The pressure of spring *i* against the lower edge of scraper G brings the cleaner L back into the position shown in Fig. 1, immediately after the foot of the operator passes beyond lever *m*. Various other modes of combining the cleaner-knife L with the scraper G may be employed without departing from the distinctive features of my invention herein set forth.

In Fig. 5 I have shown the preferred form of brush, which has vertical rubber strips *h* along its face in connection with the bristles and at its ends, to assist in cleaning the shoe and to keep the bristles from spreading.

I claim—

1. The combination of the base A, the longitudinal rods C C, supported along the sides thereof, the brushes I I, hinged at their lower
5 edges to the rods, springs *b b*, mounted on the rods and serving to yieldingly sustain the brushes in upright positions, and the foot-support H, extending longitudinally between the rods and the brushes, substantially as de-
10 scribed.

2. The combination of the base A, the longitudinal rods C C, supported along the sides thereof, the hinged flexible brushes I I, and the foot-support H, extending longitudinally
15 between the brushes, and connected at its ends to the longitudinal rods, substantially as described.

3. In a combined boot and shoe cleaner and scraper, the combination of the hinged flexible brushes I I, rods C C, foot-rest H, scraper
20 G, and cleaner L, secured to lever *m*, all supported on a suitable base, substantially as herein set forth.

4. The combination of a supporting base-plate A, hinged and laterally-yielding side
25 brushes, I I, scraper G in advance of the brushes, the foot-rest H, extending longitudinally between the brushes, and a tray, B, resting longitudinally on the upper side of the base-plate beneath the scraper and the brushes,
30 and detachable from said base-plate, substantially as described.

5. The combination of the base-plate A, the horizontal rods C C, supported along the sides thereof, the flexible arms E E, hinged at their
35 lower ends to the rods, and the brushes I, secured to the hinged arms, and constructed with vertically-extending elastic strips *h*, substantially as described.

In testimony whereof I have hereunto set my
40 hand.

CHARLES W. HARRIS.

Witnesses:

G. C. ANDERSON,
D. OLDHAM.