

(No Model.)

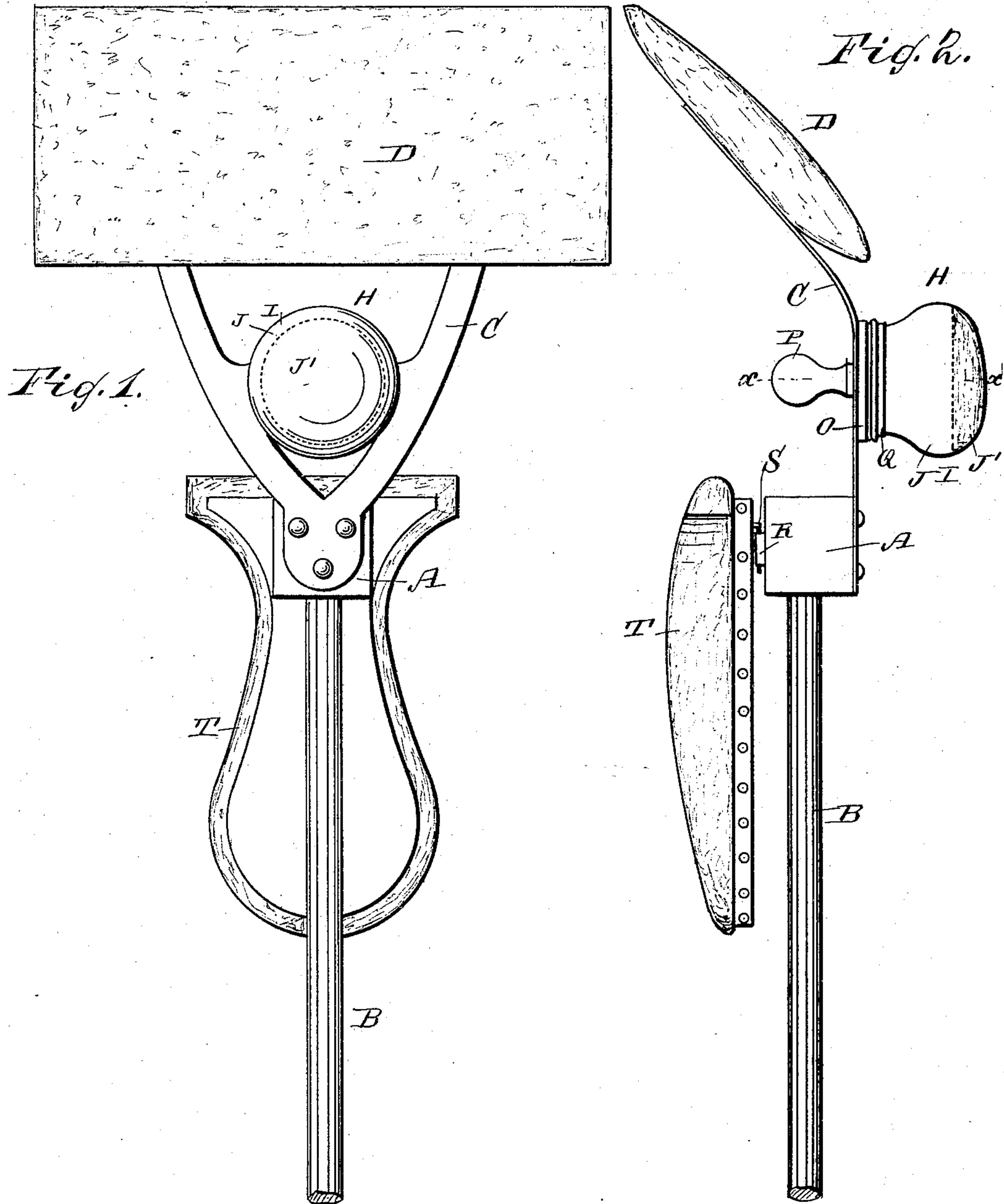
2 Sheets—Sheet 1.

C. B. VON SCHENK.

WINDOW CLEANER.

No. 353,472.

Patented Nov. 30, 1886.



WITNESSES:

Theo. G. Hostetler
to Sedgwick

INVENTOR:

Carl von Schenk
BY *Munn & Co*
ATTORNEYS.

(No Model.)

2 Sheets—Sheet 2.

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Fig. 3.

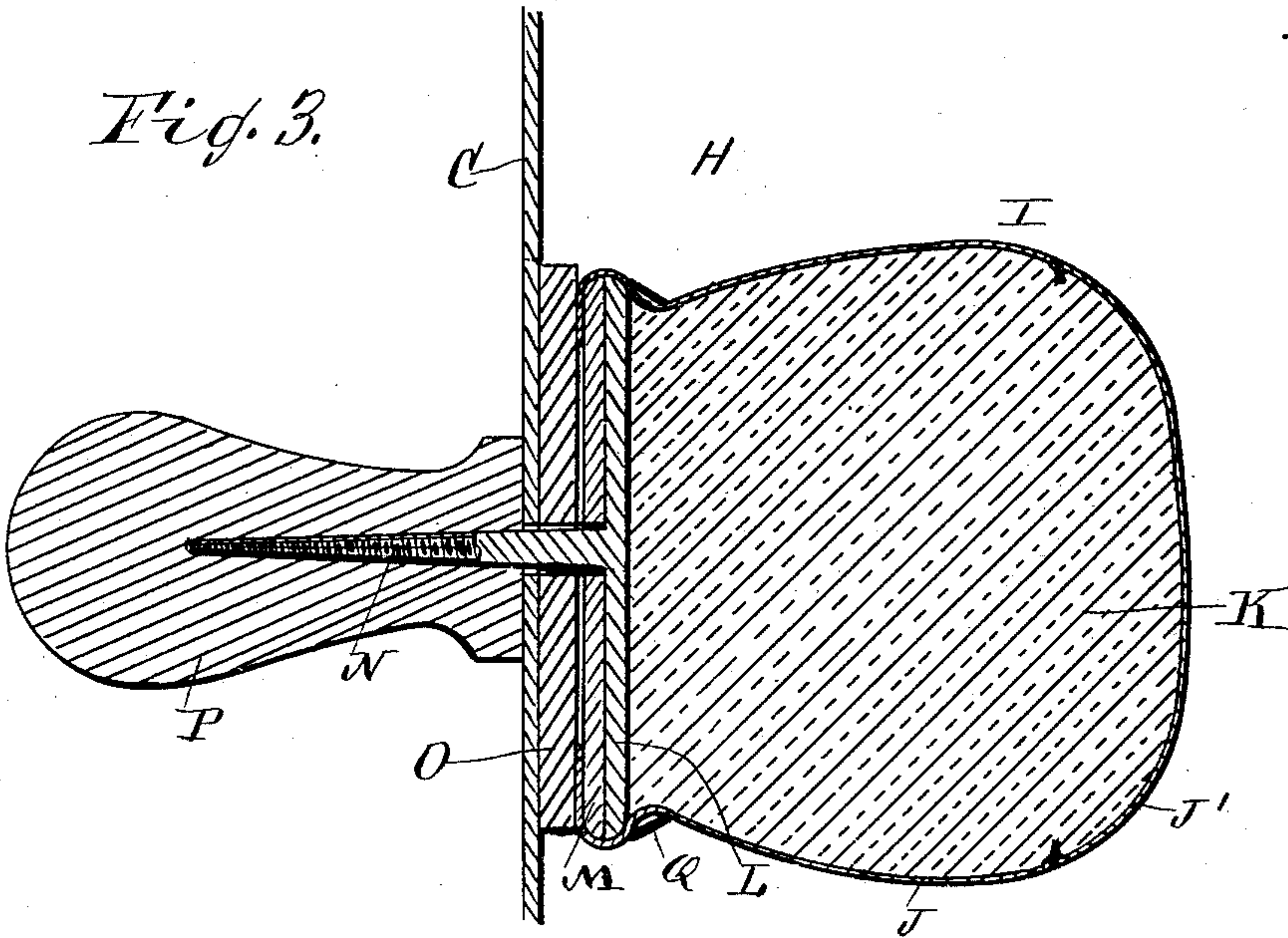


Fig. 4.

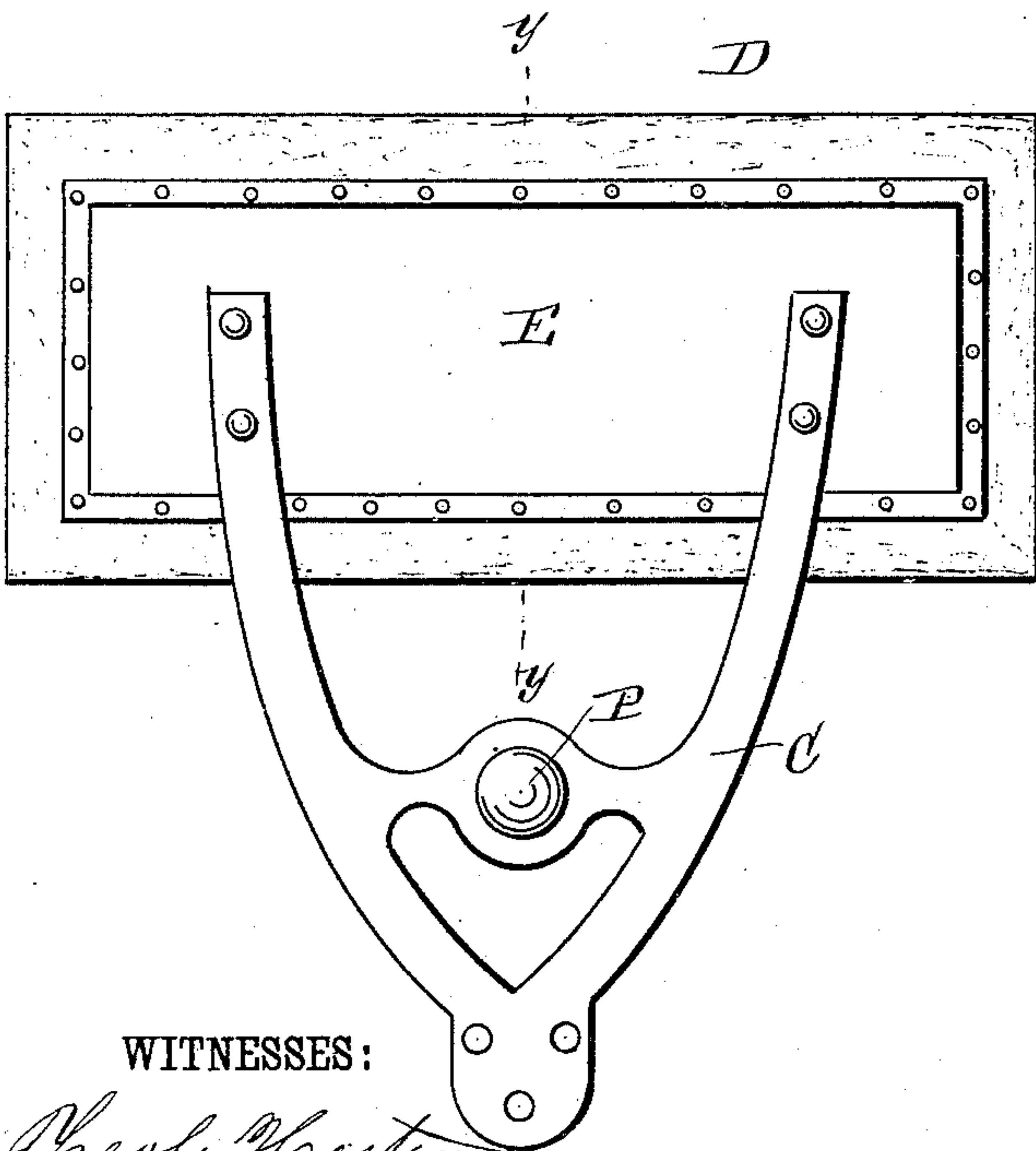
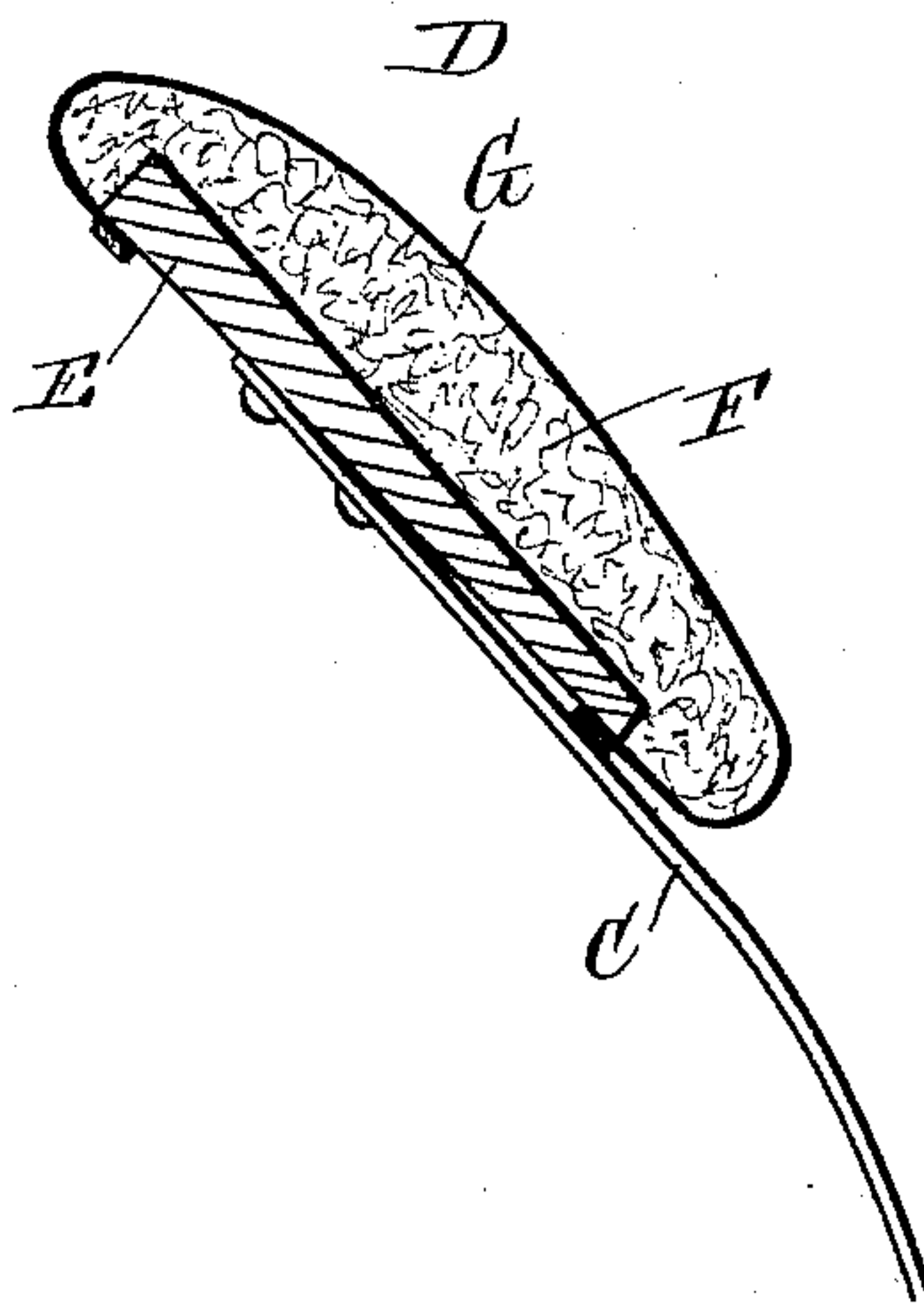


Fig. 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CARL BERNHARD VON SCHENK, OF FRANKFORT-ON-THE-MAIN, GERMANY.

WINDOW-CLEANER.

SPECIFICATION forming part of Letters Patent No. 353,472, dated November 30, 1886.

Application filed June 19, 1886. Serial No. 205,636. (No model.)

To all whom it may concern:

Be it known that I, CARL BERNHARD VON SCHENK, a subject of the Emperor of Germany, and residing at Frankfort-on-the-Main, Germany, have invented new and useful Improvements in Window-Cleaners, of which the following is a specification.

The object of my invention is to provide a new and improved device for cleaning and polishing windows, looking-glasses, &c, without the use of water.

The invention consists of a pad attached to a bracket secured to a block, of a powder-holder secured to the bracket, and of a detachable pad.

The invention also consists of various parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation of my improvement. Fig. 2 is a side elevation of the same. Fig. 3 is a sectional plan view of the powder-holder on the line *x x* of Fig. 2. Fig. 4 is a rear view of the stationary cleaning-pad, and Fig. 5 is a vertical cross section of the same on the line *y y* of Fig. 4.

The wooden block A is provided with a handle, B, and a bent bracket, C, which projects upward and carries on its upper end a pad, D, which is provided with a board, E, (see Fig. 5,) on which is placed the filling F, which consists of fine low wool and artificial wool in equal parts, which is covered with linen, and then over the linen is placed the outer covering, G, which consists of a fabric made from waste silk having its rougher side turned out. The cover G is attached to the rear of the board E by means of a band and tacks, as shown in Fig. 4, or by any other suitable device.

On the bracket C is mounted the powder-holder H, which is provided with a strong bag, I, the sides J of which are of satin-finished fabric, the front part, J', being of fine twilled fabric, from which, in contradistinction to the sides J, all the dressing is removed by placing the same in hot water.

The bag I is filled with a powder, K, which is obtained as follows: one part, by weight, of

cryolite ($3\text{Na}_2\text{F}_6\text{Al}_2\text{Fe}_6$) and two parts, by weight, of white quartz (SiO_2) are finely pulverized and passed through a sieve having five thousand meshes per square centimeter. Fifty liters of the powder thus obtained are put into sixty liters of cold water, into which are poured ten liters of sulphuric acid of seventy-eight per cent. This solution is allowed to stand for six hours. The deposit formed during this time is elutriated three times with clean water, and is then dried at a temperature not exceeding 85° Celsius. The result is a very fine powder of the following composition, viz: silicic acid, 85.10 parts; magnesia, 0.22 parts; aluminium, 1.68 parts; sulphuret of calcium, 0.06 parts.

After the bag I is filled with the powder K, above described, I insert the disks L and M into the open end of the bag, draw the sides J over the edges of the disks L and M, and hold the same in this position by a string or any other suitable device. From the disk L a screw, N, projects outward, which screw passes through a disk, O, and through an aperture in the bracket C, and then a handle or knob, P, is screwed on the screw N and against the bracket C, whereby all the parts of the powder-holder are securely held together. An elastic band, Q, is placed over the outside of the pad I, next to the disk L, which elastic band has the tendency to force the powder K toward the discharging-point at the front part, J'.

The rear side of the block A is provided with a socket or keeper, R, into which fits the hook and handle S, secured to the pad T, which is of the same construction as the pad D. This detachable pad T has preferably the form of a lyre, and serves to clean and polish the corners of small panes of glass.

The entire device is used by taking hold of the handle B and striking the front part, J', of the powder-holding device I against the pane of glass to be cleaned, which causes the powder K to penetrate the part J' and settle on the glass. The operator then rubs lightly on the pane of glass with the pad D, thus effectually cleaning and polishing the same, all dirt, &c., being taken up by the pad D.

The powder-holder H can be removed from the bracket C by unscrewing the knob or handle P, and after the parts are removed the handle P is screwed on again, and the powder-holder can be used without the entire device

in connection with either the detachable pad T or the pad D.

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

1. In a window cleaner and polisher, the combination of the block A and the handle B with the pads D and T and the powder-holder H, substantially as shown and described.
2. In a window cleaner and polisher, the combination of the block A and the handle B with the detachable pad T and the powder-holder H, substantially as shown and described.
3. In a window cleaner and polisher, the bag

I, having the satin-finished sides J and the front part, J', and the polishing-powder K, placed in the said bag I, in combination with the disk L, having the screw N, the disks M and O, the handle P, and the elastic band Q, substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CARL BERNHARD VON SCHENK.

Witnesses:

ALVESTO S. HOGUE,
JEAN GRUND.