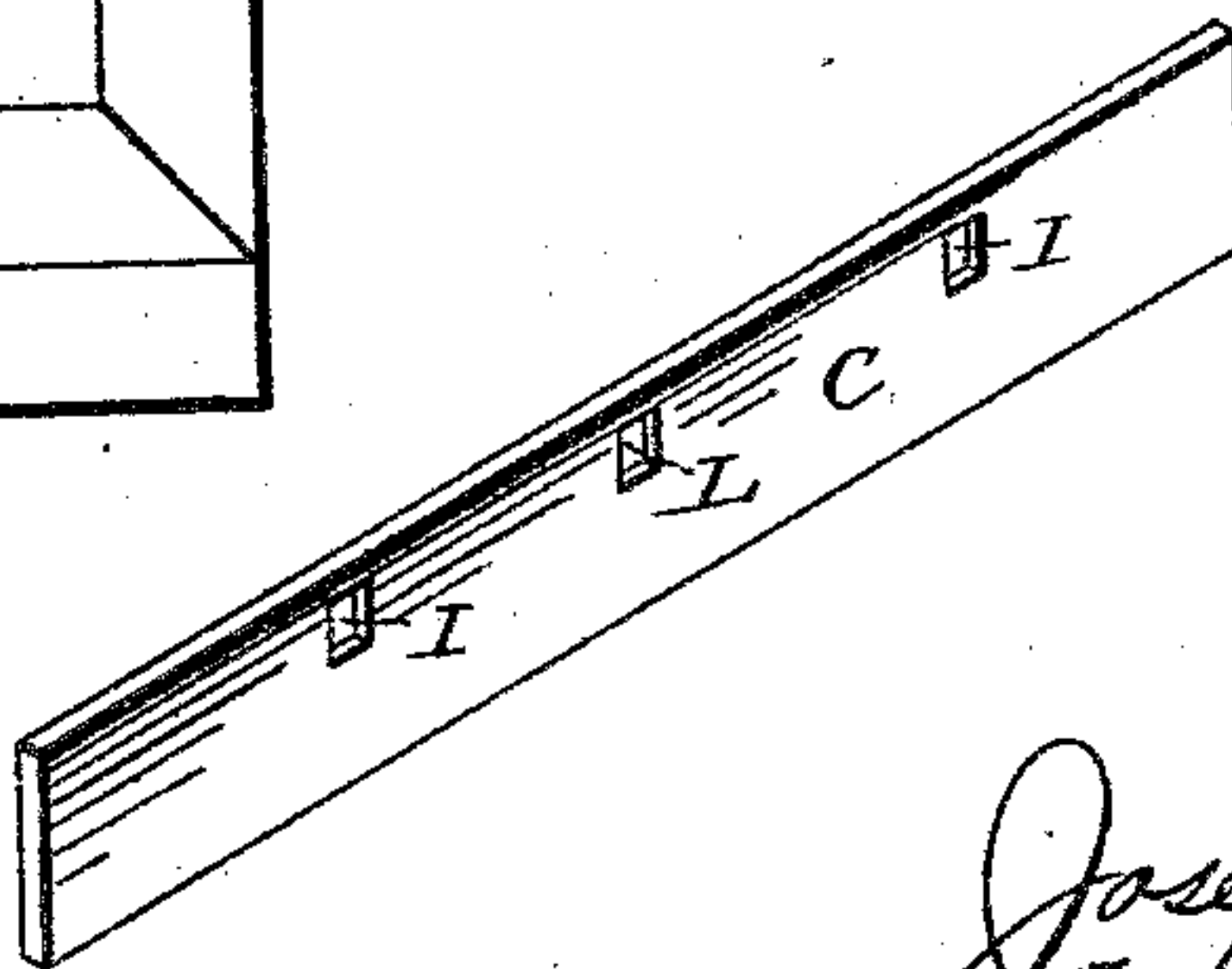
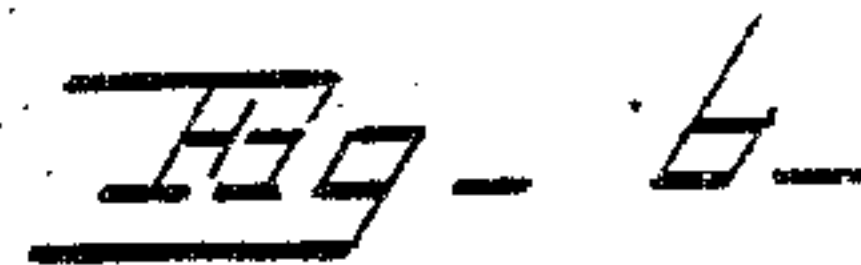
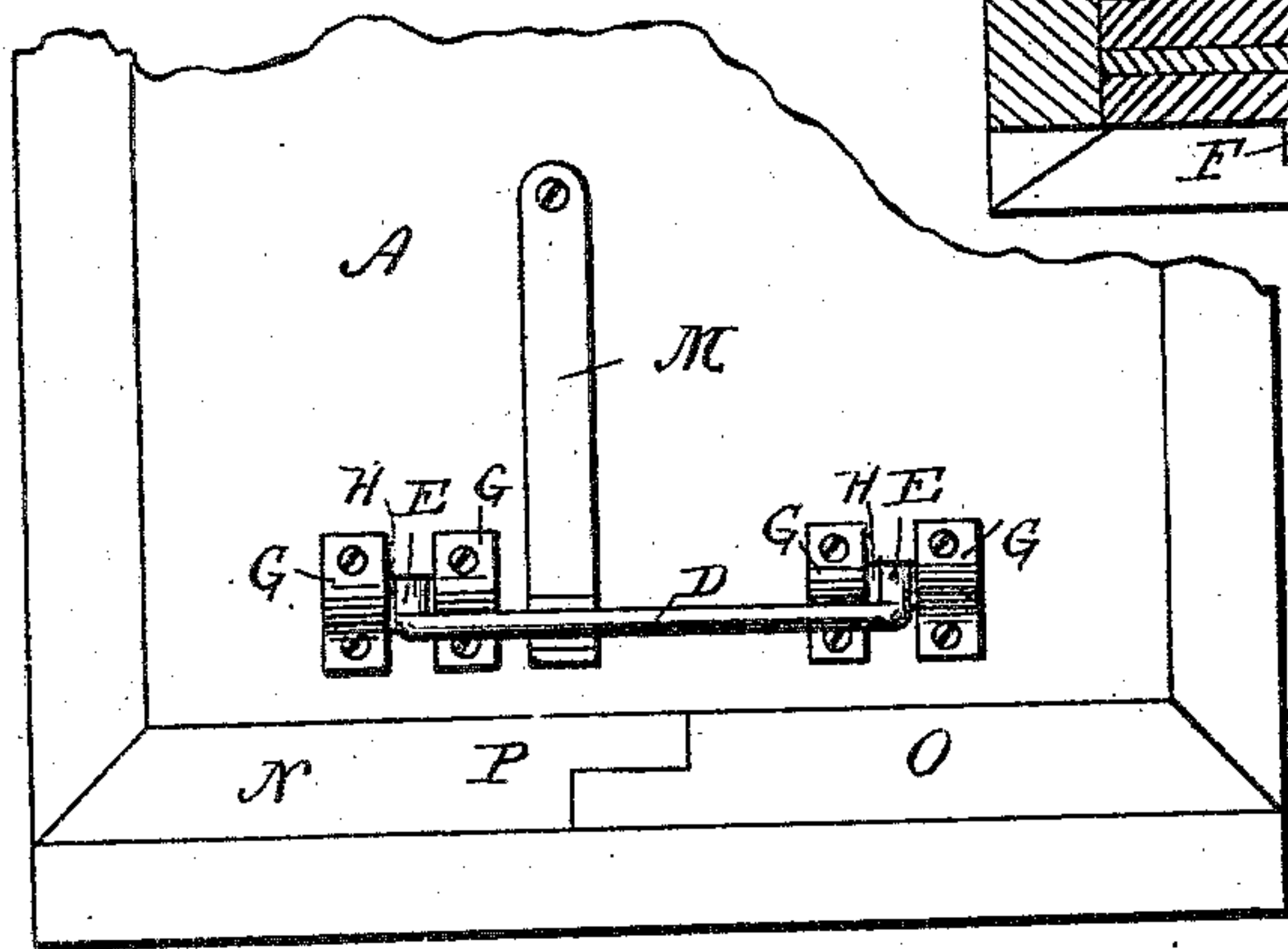
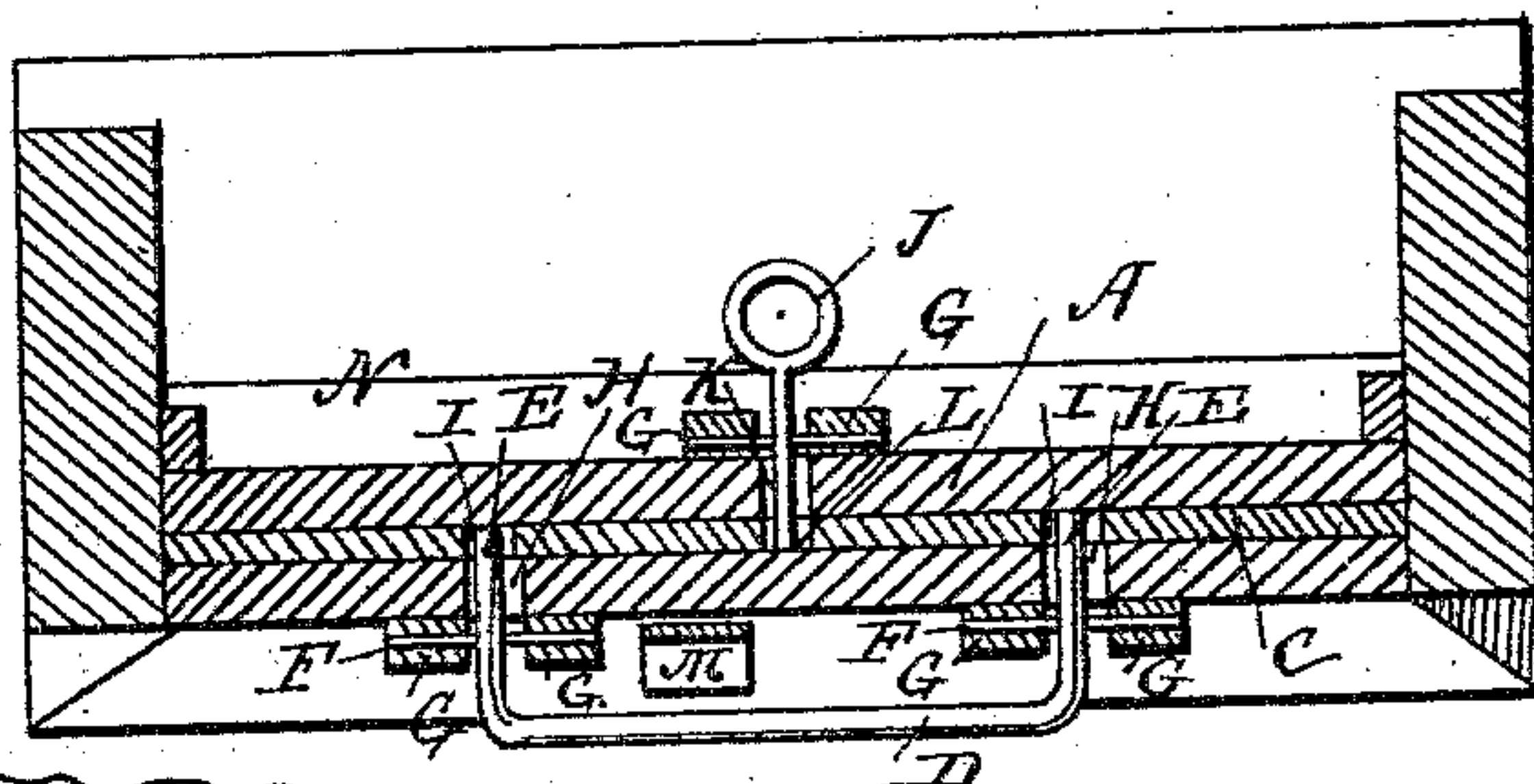
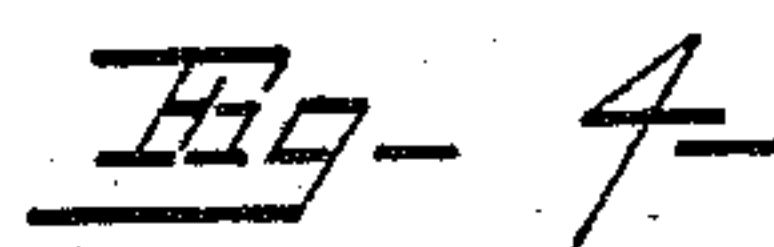
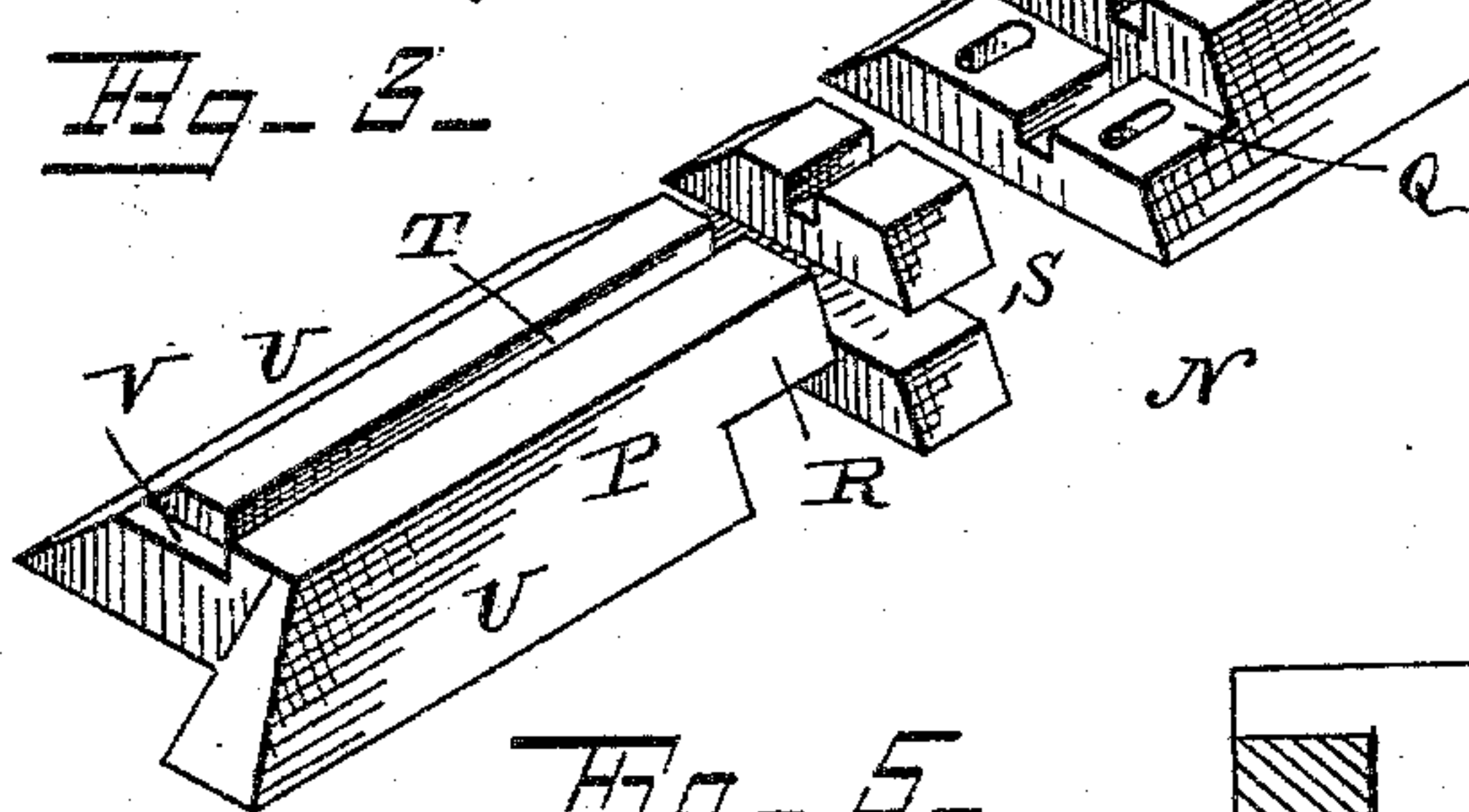
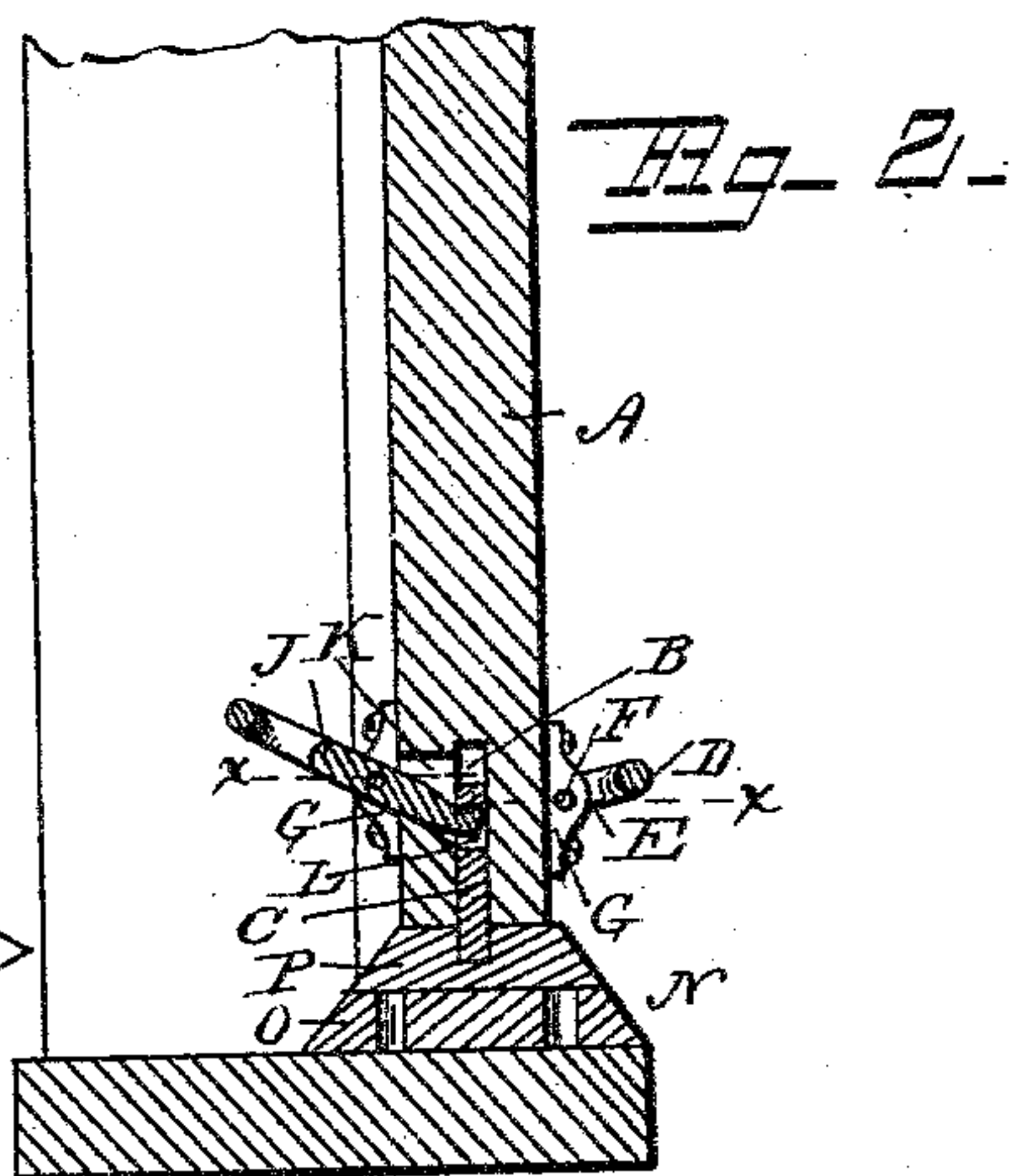
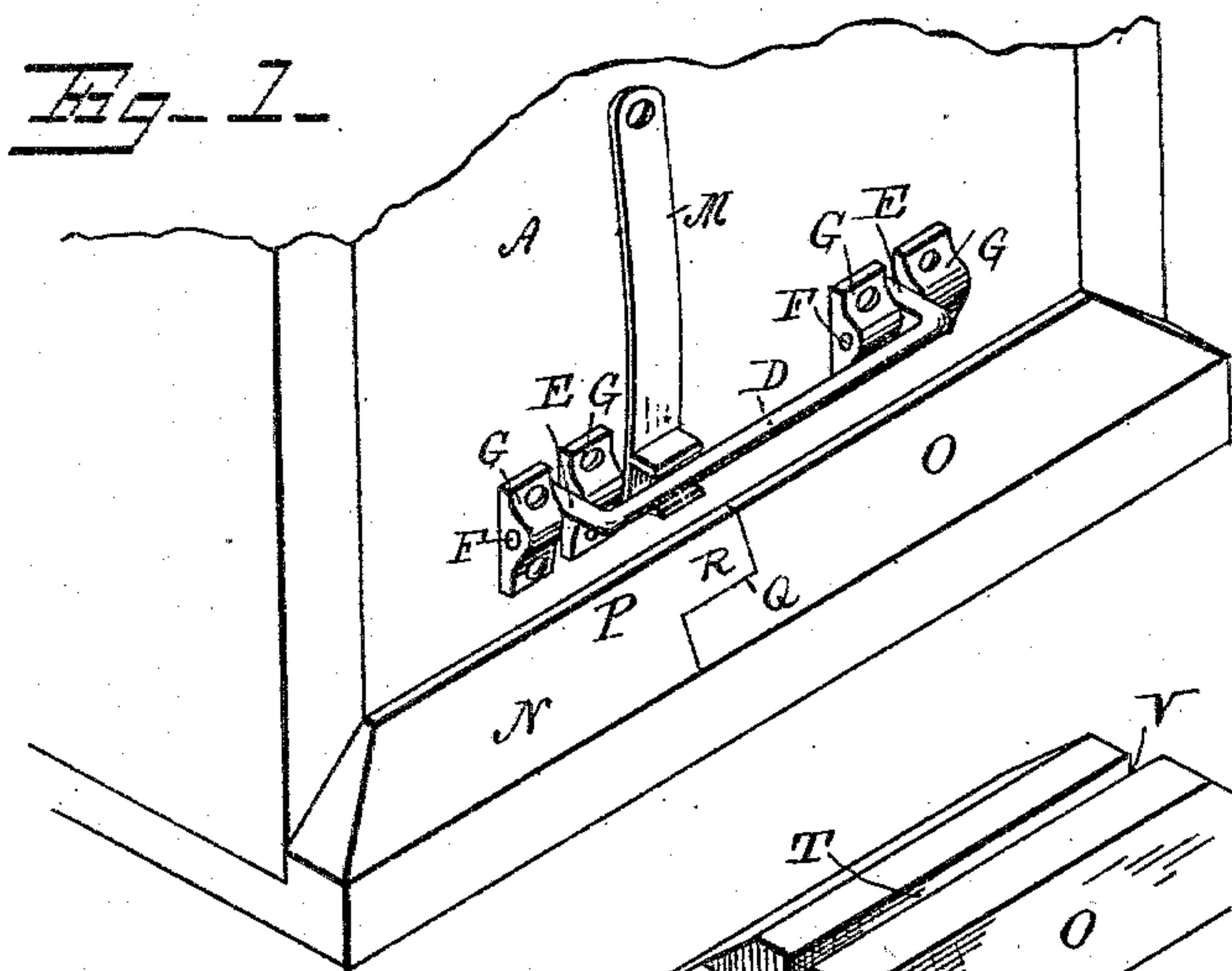


(No Model.)

J. WALKER.
WEATHER STRIP.

No. 274,536.

Patented Mar. 27, 1883.



WITNESSES

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UNITED STATES PATENT OFFICE.

JOSEPH WALKER, OF BELLEVILLE, KANSAS.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 274,536, dated March 27, 1883.

Application filed November 16, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH WALKER, a citizen of the United States, residing at Belleville, in the county of Republic and State of Kansas, have invented a new and useful Weather-Strip, of which the following is a specification, reference being had to the accompanying drawings.

Figure 1 is a perspective view of the lower part of a door and door-frame to which my improved weather strip and threshold has been applied. Fig. 2 is a vertical sectional view of the same, showing the door closed. Fig. 3 is a detail view of the threshold. Fig. 4 is a horizontal sectional view on the line *xx*, Fig. 2. Fig. 5 is a side view of the door, and Fig. 6 is a detail view of the weather-strip detached.

The same letters refer to the same parts in all the figures.

This invention relates to weather-strips for doors and thresholds, to be used in combination therewith; and it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claims.

A in the drawings represents the door, which is prepared for the reception of the weather-strip by simply forming a deep groove or recess, B, in its lower edge.

C is the weather-strip, which consists of a plate of metal of the same length as the width of the door, in the recess B of which it is fitted.

D is a metallic or wire bail, the arms E of which have transverse pins F, by which they are pivoted in boxes or bearings G, consisting of small suitably-constructed brackets secured upon the outside of the door, near its lower edge. The arms E of the bail D extend through slots H in the door, and into slots I, formed in the weather strip or plate C, near its ends. Upon the inner side of the door are provided brackets or bearings G for a pivoted arm, J, extending through a slot, K, in the door, and into a slot or hole, L, formed centrally in the weather-strip plate. The weather-strip, by its own gravity, sinks down below the edge of the door, but is prevented from dropping out by the ends of arm J and bail D. By pressing upon either of these the weather-strip may be raised, so as to be flush with the lower edge of the door. In this position it may be retained by a spring-catch, M, secured upon the side of the door and engaging the bail D.

The threshold N consists of two parts or pieces, O P, the former of which has a recess, Q, to receive a flange, R, extending from the latter so as to form a tight joint when the parts are placed in position. Blocks or plates S may be interposed between the adjoining ends, in order to fit the threshold to a door-frame of a different width. The upper side of the threshold has a continuous groove, T, to receive the weather-strip in operation. The threshold may be secured in position by means of nails or screws, and its outer side is beveled, as at U. Openings V are cut from the groove T to the outside, to let out any water which may accumulate in said groove.

The operation of my invention will be readily understood. When the door is closed the weather-strip, striking the beveled side of the threshold, is raised until the door is fully closed, when it drops by its own weight into the groove T of the threshold. When in this position it forms a tight joint, and prevents wind and moisture from entering under the door. It also serves to retain the door in a closed position, and prevents it from being opened until the bail D or arm J is depressed, (which may be done by the foot of the person opening the door,) thus lifting the weather-strip up out of the groove T.

My improved weather-strip is exceedingly simple in construction, and durable, and it, as well as the threshold, may be readily applied to any ordinary door.

I claim as my invention—

1. The combination of the door having a groove at its lower edge, the vertically-sliding plate C, having slots I, the brackets G, the pivoted bail D, having arms E, extending through slots H in the door into the slots I of the weather-strip plate, and the spring-catch M, as and for the purpose set forth.

2. The threshold N, consisting of the parts O P, provided respectively with a recess, Q, and flange R, and having the groove T and beveled side U, as set forth.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in presence of two witnesses.

JOSEPH WALKER.

Witnesses:

B. H. PARKER,
S. C. CAIMMIER.