

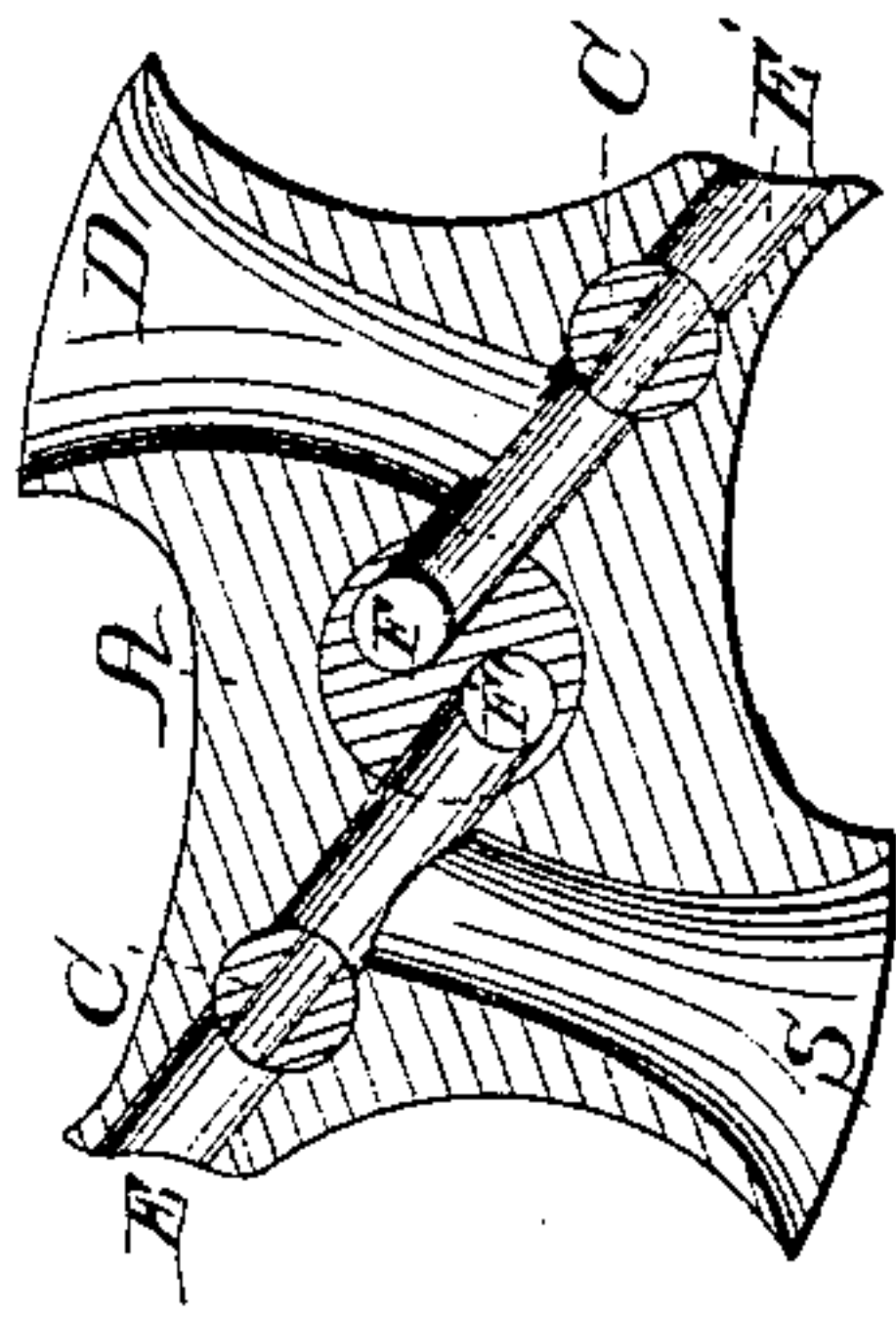
A.B. Wilson,

Photographic-Plate Holder,

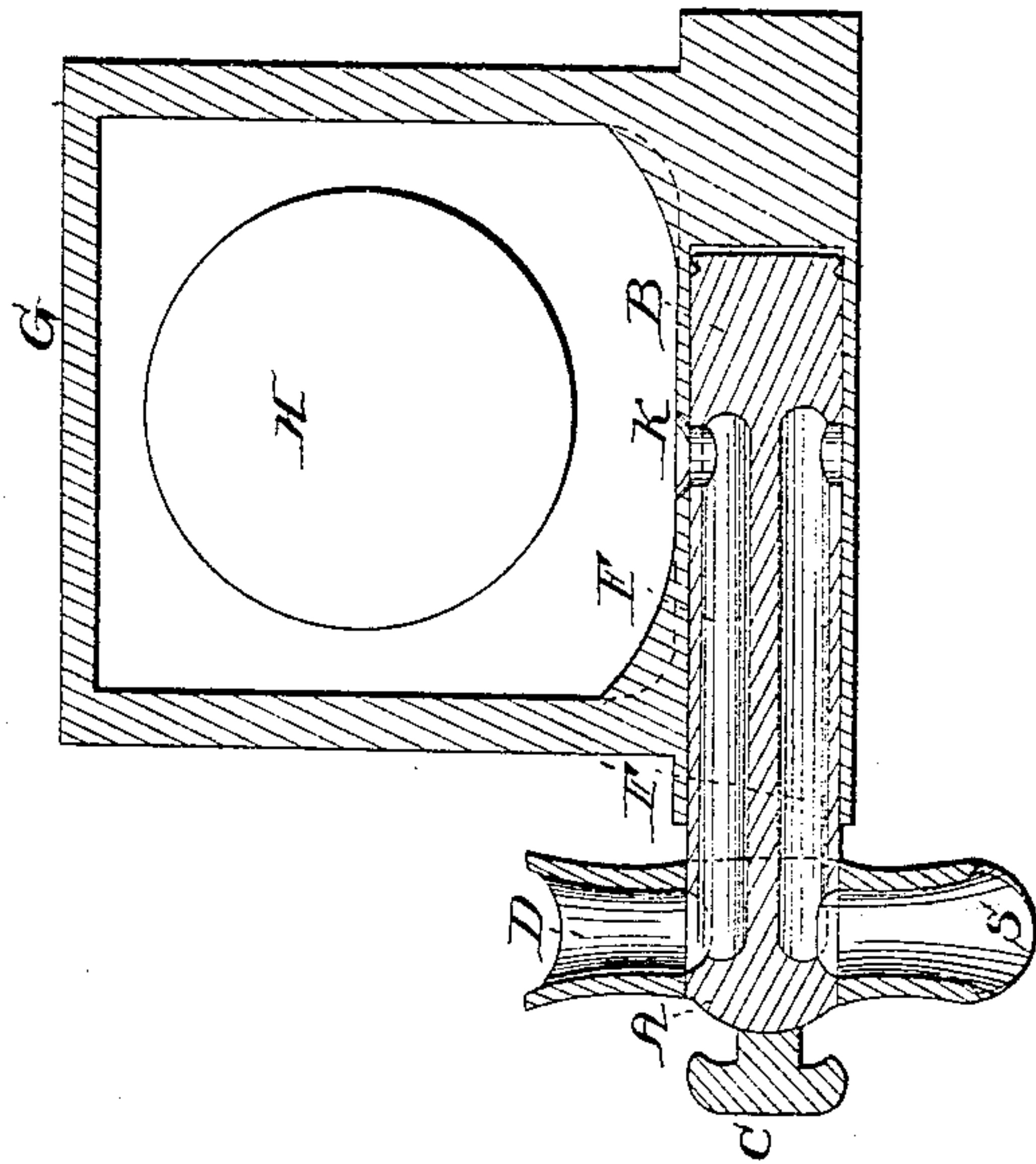
Nº 37,252,

Patented Dec. 23, 1862.

Fig; 3.



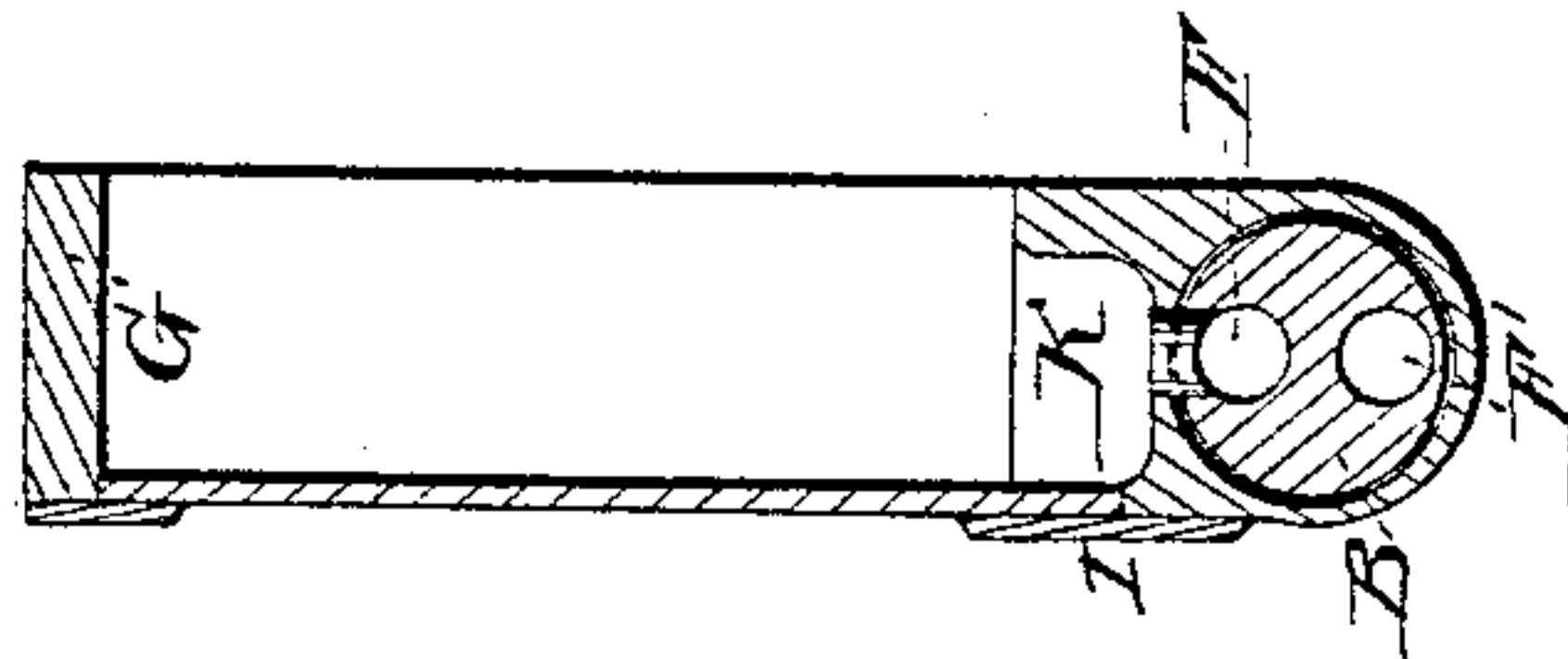
Fig; 6.



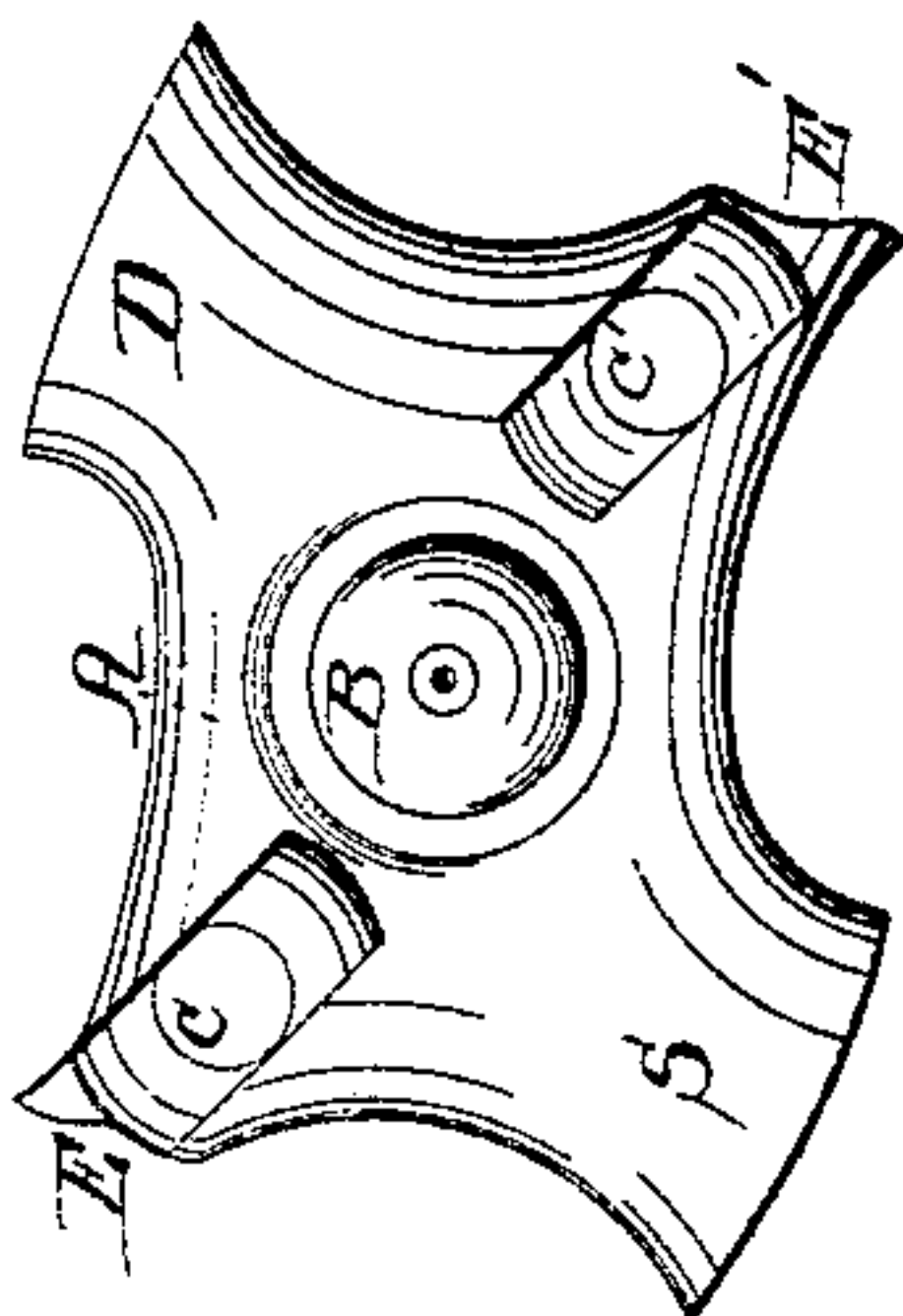
Fig; 2.



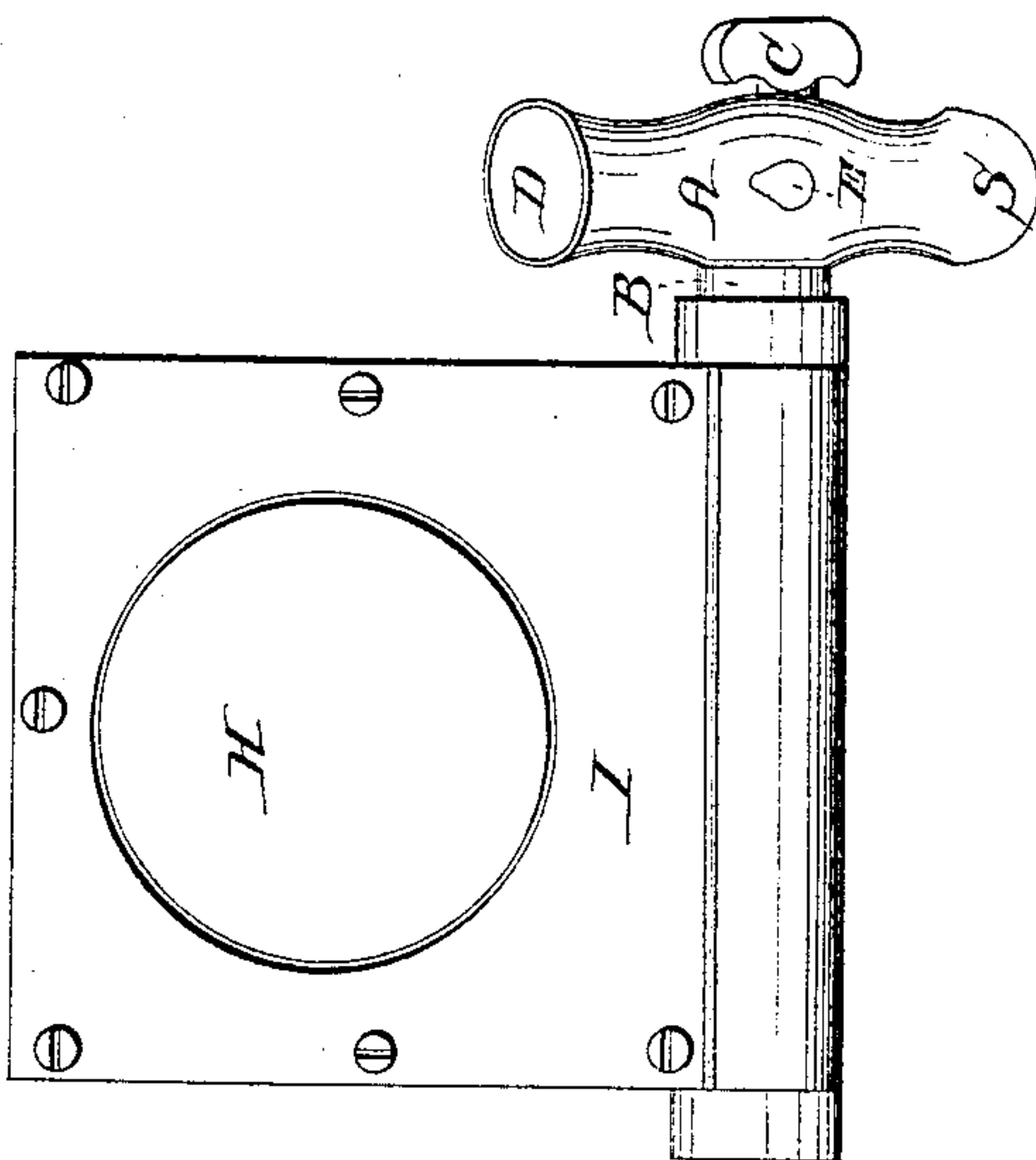
Fig; 5.



Fig; 1.



Fig; 4.



Witnesses;
S. R. Kream

Inventor;
A. B. Wilson

UNITED STATES PATENT OFFICE.

ALLEN B. WILSON, OF WATERBURY, CONNECTICUT.

PHOTOGRAPHIC-PLATE HOLDER.

Specification forming part of Letters Patent No. 37,252, dated December 23, 1862.

To all whom it may concern:

Be it known that I, ALLEN B. WILSON, of Waterbury, county of New Haven, and State of Connecticut, have invented a new and Improved Funnel and Plate-Holder for a Photographic Camera; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, and the letters of reference marked thereon, in which the same letter represents the same thing in each figure.

Figure 1 is a face view of my improved funnel. Fig. 2 is an outside view of the double channel-stem leading from the funnel to the throat of the plate-holder. Fig. 3 is a cut section of my improved funnel, showing the connection of the channels and faucets therewith. Fig. 4 is a back view of the improved plate-holder and funnel adjusted. Fig. 5 is a cut section through the plate-holder and channel-stem, showing the throat and channels. Fig. 6 is a longitudinal cut section through the funnel and plate-holder when adjusted for use.

These inventions are designed to be used with and are improvements upon the improved photographic camera for which Letters Patent were recently granted me by the United States.

Letter A represents the shell of the funnel; B, the double channel stem; C, the key to the faucets; D, the mouth of the funnel, through which the developing-bath is given; E and E', the apertures for drawing off the baths; F and F', the channels of the stem; G, the frame of the plate-holder; H, the negative-glass; I, the improved plate-holding the negative-glass in place; K, the throat; S, the mouth of the funnel through which the sensitizing-bath is given.

One object of my improvement is to prevent the injury liable to the picture, unless great care be used, from giving both baths through the same channel. By having separate channels each bath may be given through a channel of its own, and there will be no occasion for the careful cleaning necessary when both baths are given, and withdrawn through one channel, as specified in my previous patent.

The other improvement consists in securing the plate-holding the negative-glass in a fixed position, thereby getting rid of the snap-spring F, (shown in my former patent,) which was liable to break the glass if it were not true. The negative-glass I now insert from the front instead of the rear of the plate. A small pin or other common device will prevent its falling forward when in a perpendicular position, and the plate upon which it is laid will make it sufficiently fluid-tight for practical purposes in taking pictures.

The operation of my improved funnel and plate-holder is as follows: Being ready to give the baths, insert stem B, containing the two channels, F and F', with which mouths D and S of funnel A directly communicate, into the aperture in frame G, whereby channel F' will be connected with throat K. The sensitizing-bath may then be given, the negative-glass and plate holding it being, of course, horizontal. By giving funnel A a quarter-turn the negative-glass, and plate I, holding it, will be brought into a perpendicular position and the bath flow back into channel F', escaping into the vessel designed to receive it, not through mouth S, by which it was given, but through aperture E, the turning of key C having opened communication with it, which its faucet kept closed when the bath was given. Turn funnel A and stem B so as to bring channel F in communication with throat K and repeat the process above described in giving the second bath, which will pass through mouth D and channel F and be drawn off through aperture E', as has been explained.

What I claim, and desire to secure by Letters Patent, is—

1. The double funnel and stem with separate channels, constructed and operating substantially as and for the purpose described.

2. Securing the negative-glass in position in the manner and by means of a plate-holder constructed and operating substantially as described.

A. B. WILSON.

Witnesses:

D. C. BIRDSALL,
S. W. KISSAM.