

(No Model.)

H. C. WHITE.

STEREOSCOPE.

No. 281,743.

Patented July 24, 1883.

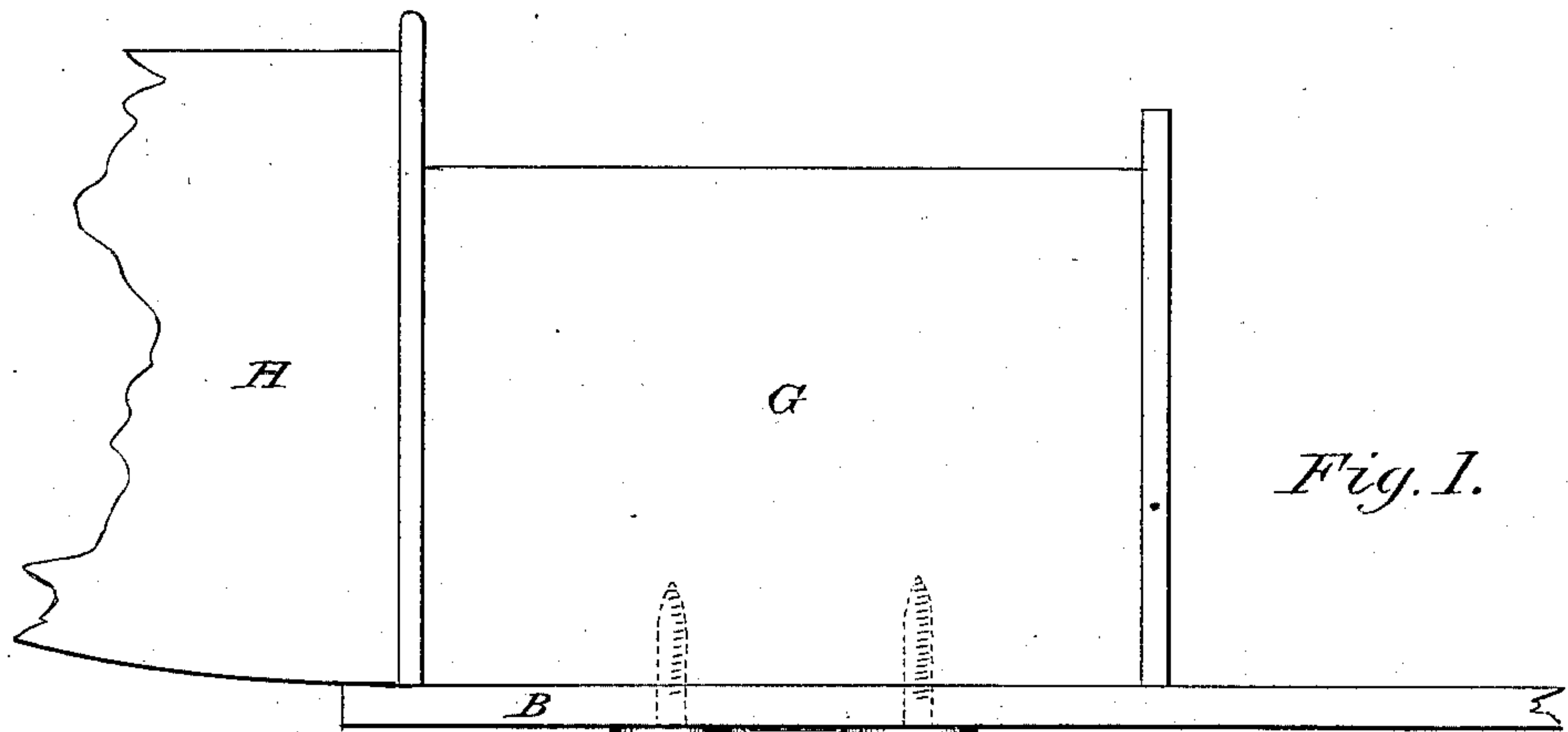


Fig. 1.

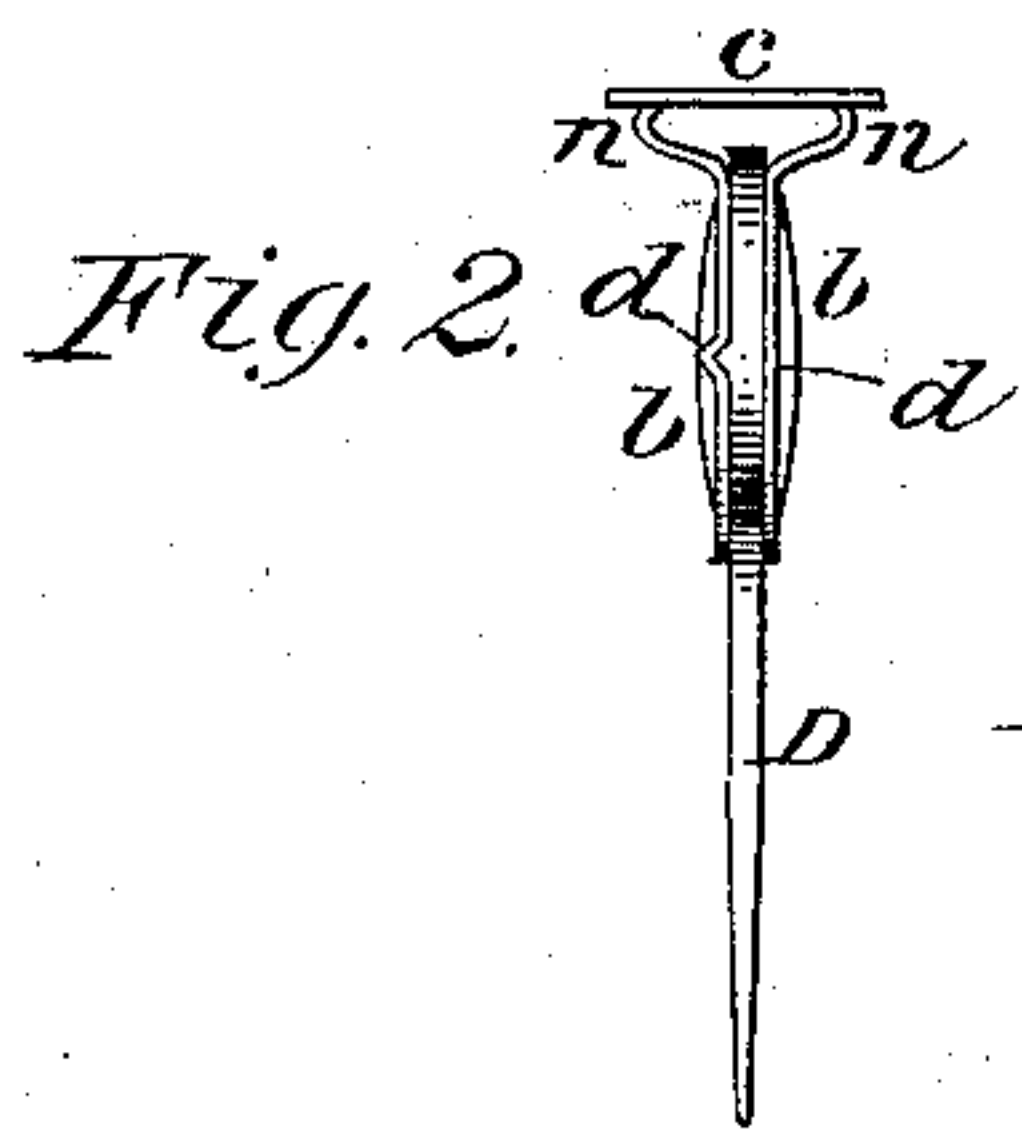


Fig. 2.

Fig. 3.

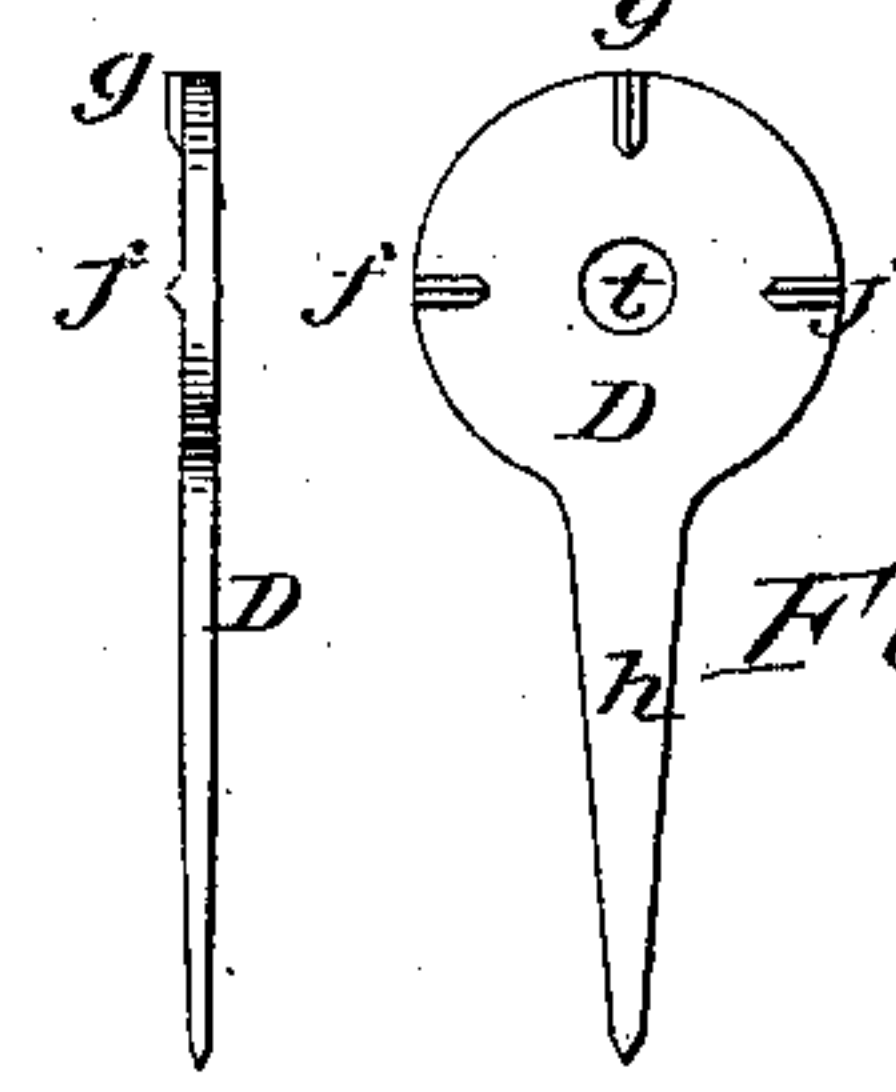
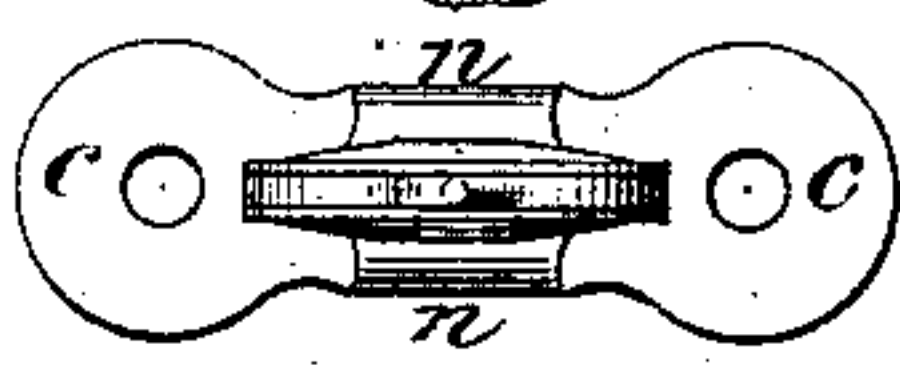


Fig. 4.

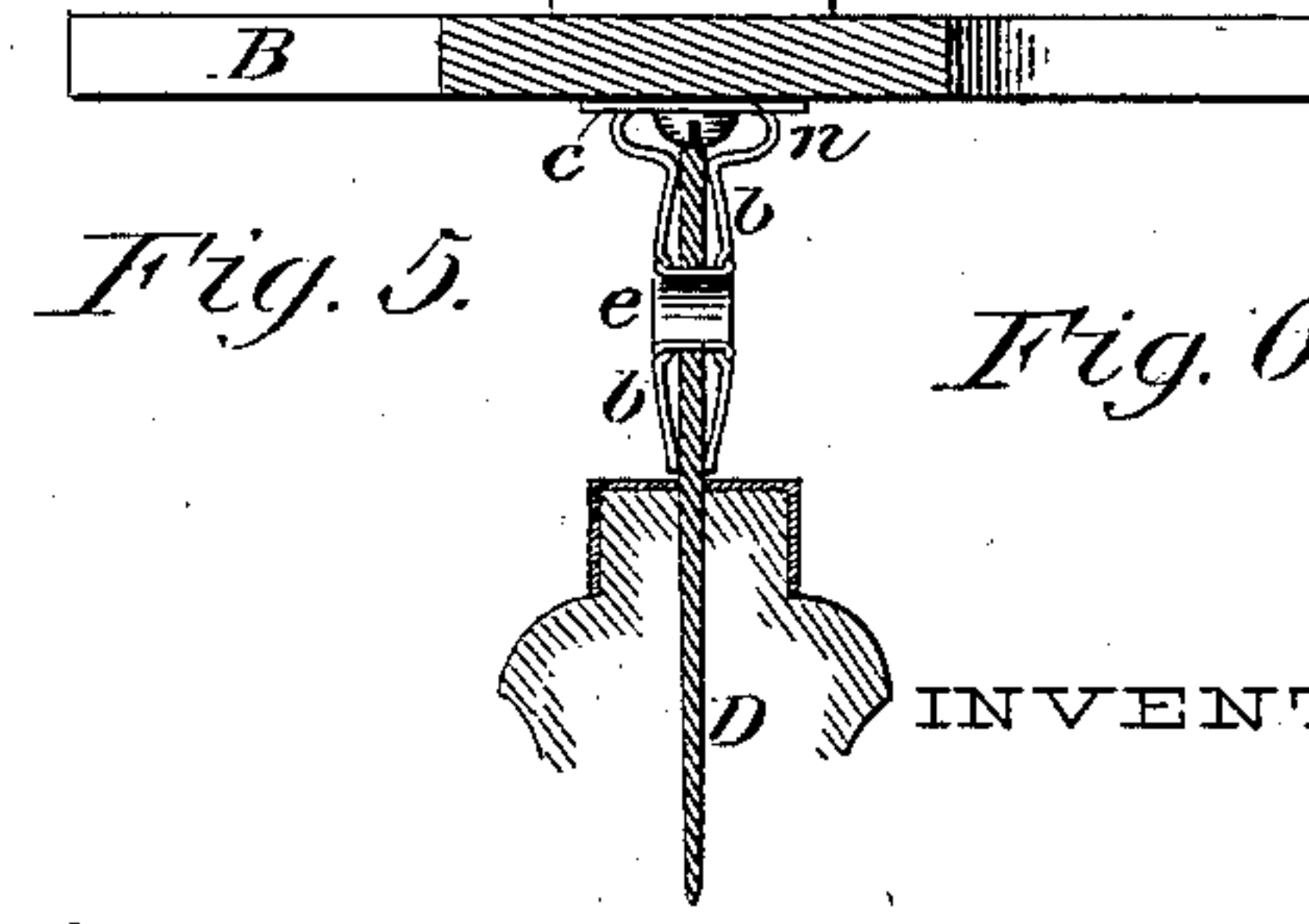
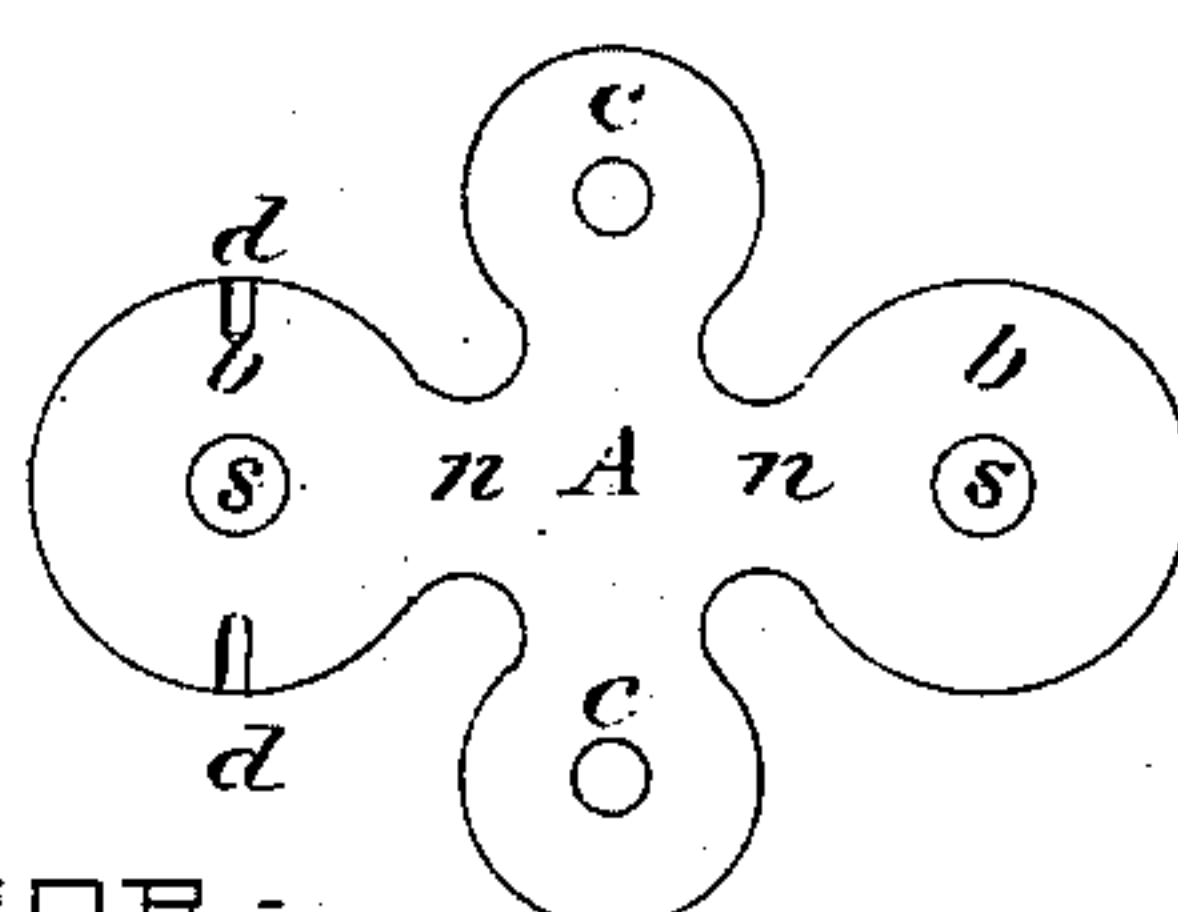


Fig. 5.

Fig. 6.



WITNESSES:

INVENTOR:

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# UNITED STATES PATENT OFFICE.

HAWLEY C. WHITE, OF NORTH BENNINGTON, VERMONT.

## STEREOSCOPE.

SPECIFICATION forming part of Letters Patent No. 281,743, dated July 24, 1883.

Application filed May 17, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, HAWLEY C. WHITE, of North Bennington, in the county of Bennington and State of Vermont, have invented certain improvements in hinge-joints for attaching folding handles to the shafts or bodies of hand-stereoscopes, of which the following description, in connection with the accompanying single sheet of drawings, constitutes a specification.

The drawings will fully explain the invention to those versed in the art to which it relates.

Figure 1 is a side elevation of an ordinary stereoscope. Fig. 2 is an edge view of my improved hinge-joint. Fig. 3 is an under plan view of said hinge-joint detached from the stereoscope. Fig. 4 shows a face and edge view of the number of the hinge which is connected with the stereoscope-handle. Fig. 5 is a vertical transverse section of said joint. Fig. 6 is a face view of a piece of plate metal from which the female member of the joint is made before the same has been swaged or pressed into final shape.

My invention consists, essentially, of two members, both preferably made from stiff sheet metal by punching and pressing or striking up.

The part which forms the two spring cheek-pieces and furnishes the means of attachment to the stereoscope, and designated A, I denominate the "female" member of the hinge, and the piece adapted to rotate between said cheek-pieces (shown at D in Fig. 4) I call the "male" member. Female member A is a piece of metal plate punched out in the shape and substantially of the form shown in Fig. 6, having two perforated wings, *c c*, whereby the piece may be attached to the stereoscope, and two lateral perforated cheek-pieces, *b b*, which constitute the provisions for attachment of or connection with the male member D, and also for the construction of the spring, which aids to hold the hinge locked in any adjusted position desired. Plate A has one or more marginal indentations in one of the cheeks, (shown at *d d*,) which co-operate with corresponding marginal projections, *f f g*, of male member D. Said indentations and projections are struck up from the metal of the plate in the usual

way. Plate A is completed by making the cheeks concave, as shown at *b b*, Fig. 5, and bending them around into parallel position, as seen in Figs. 2 and 5, so that the nickings *n n* will assume substantially the form shown. Cheeks *b b* now stand at right angles with the fastening-rings *c c*, and in position to receive member D. Tang *h* of the male member is inserted in the end of the handle F, after which the disk part thereof is inserted between the cheeks *b b*, so that the eyes *s s* and *t* shall be concentric. The two are then united or confined together by the insertion of a rivet or eyelet, *e*, Fig. 5. This eyelet is headed down until it produces a proper compression of the concaved cheeks *b b*, and thus constitutes a cup-spring. The whole is then secured to the stereoscope by screws or nails, as shown in Fig. 1.

Whenever the handle F is folded down, the lug *g* will lock into one of the indentations *d d*, and when the handle is brought into position perpendicular to shaft B lugs *f f* will similarly lock into indentations *d d*, in which respective positions the parts will be firmly maintained by means of the cup-spring formed, as above shown, by the concaved cheek-pieces *b b*.

I claim as my invention—

A hinge-joint for attaching the handles or stands of stereoscopes to the bodies thereof, composed of the described male and female members, united substantially as shown, the female member having two lateral portions, of disk form, bent around, and one or both concaved, so as to form the opposite cheek-pieces of a cup-spring, the two members of said cup-spring having one or more projections and indentations on their internal marginal peripheries, substantially as shown, whereby the parts of the stereoscope may be locked in any desired position, substantially as described, and for the purposes set forth.

In testimony whereof I have hereto subscribed my name, at North Bennington, Vermont, this 29th day of January, A. D. 1883.

HAWLEY C. WHITE.

In presence of—

FRANKLIN SCOTT,  
E. E. PHILLIPS.