

(No Model)

H. C. WHITE.
STEREOSCOPE.

No. 582,710.

Patented May 18, 1897.

Fig. 1.

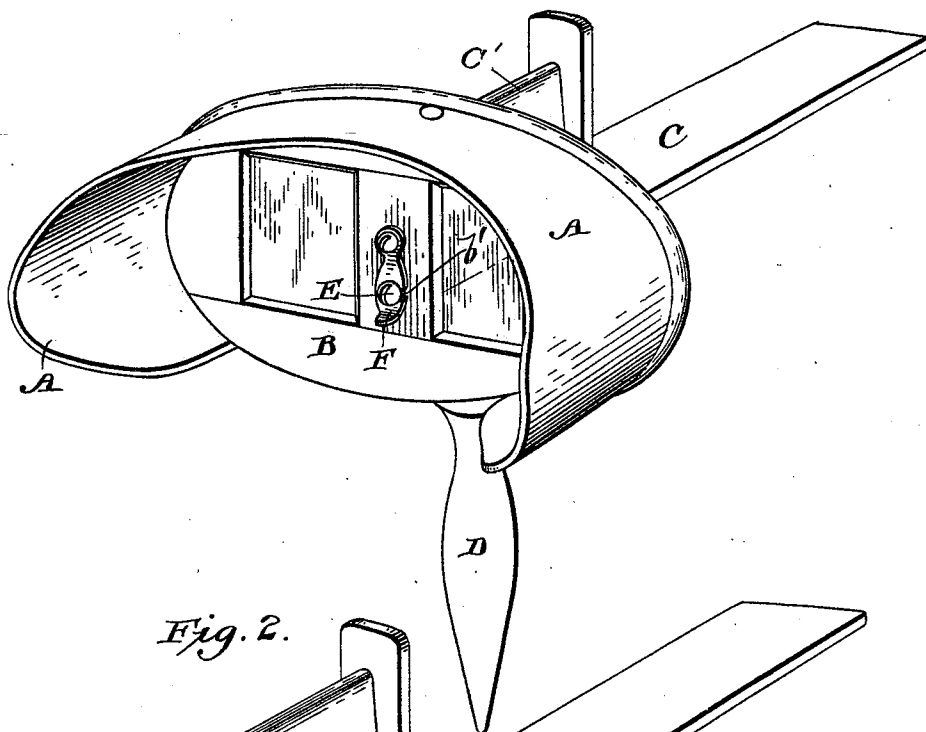


Fig. 2.

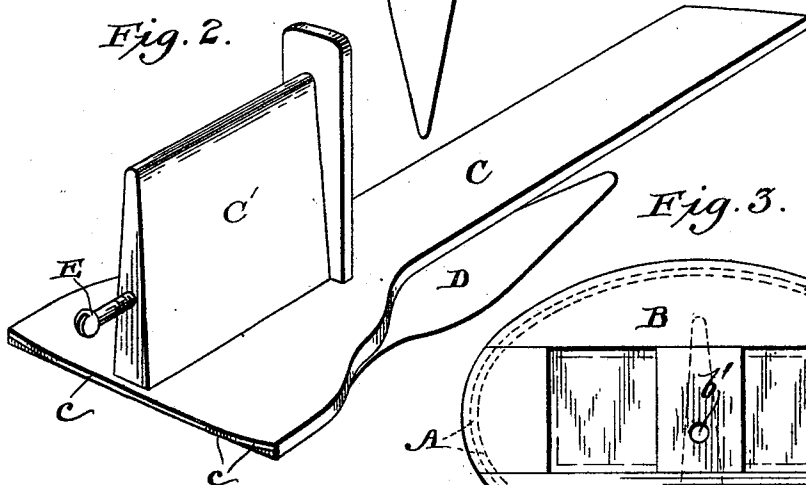
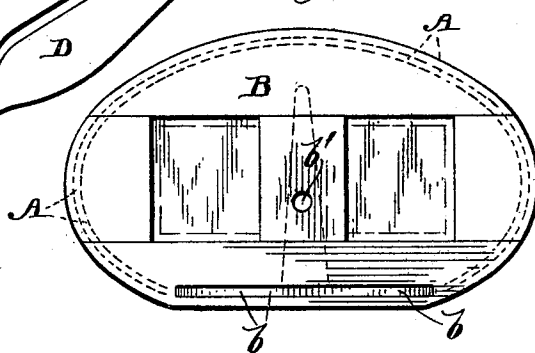


Fig. 3.



WITNESSES

Geo. W. Walmuth,
Charles H. Houghton.

INVENTOR

Hawley C. White
By
Franklin D. Scott
Attorney

UNITED STATES PATENT OFFICE.

HAWLEY C. WHITE, OF NORTH BENNINGTON, VERMONT, ASSIGNOR TO THE
H. C. WHITE COMPANY, OF SAME PLACE.

STEREOSCOPE.

SPECIFICATION forming part of Letters Patent No. 582,710, dated May 18, 1897.

Application filed April 20, 1896. Serial No. 588,295. (No model.)

To all whom it may concern:

Be it known that I, HAWLEY C. WHITE, a citizen of the United States, residing at North Bennington, in the county of Bennington and State of Vermont, have invented certain new and useful Improvements in Stereoscopes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide a separable stereoscope the parts of which, though normally secured together for use, may be easily taken apart and packed in small compass for shipping or storage.

To this end my invention consists in the combination of a stereoscope-lens frame with a shaft and detachable fastening devices, the aforesaid parts being constructed substantially as hereinafter described, and more particularly set forth in the claims.

In the accompanying drawings, Figure 1 represents a perspective view of a stereoscope embodying my invention, omitting only the picture-holder. Fig. 2 represents a similar view of the shaft and handle, the latter being folded for packing. Fig. 3 represents a rear elevation of the lens-frame, the hood being indicated in dotted lines.

A designates the hood, which may be tacked on the lens-frame B in the ordinary way.

C designates the shaft, which fits against the rear of said frame at the under edge thereof and has the usual raised division-piece C', which fits against the middle part of the rear side of said lens-frame between the lenses. The raised part C' is practically integral with the said shaft.

D designates the handle, which is hinged to the under side of said shaft, so that it may fold from the position of use, Fig. 1, to the packing position, Fig. 2.

In the devices as thus far described there is nothing new; but the shaft and lens-frame are not permanently fastened together, as hitherto. They fit together by a tongue or projection *c* and groove or recess *b*, the former, as shown, being on the shaft and the latter in the rear face of the lens-frame, though it is obvious that their relative positions may be

reversed; also, the interlocking parts need not have the form shown; also, the shaft and lens-frame are provided with a detachable fastening. The tongue on the front end of the shaft is designated *c*, and the groove in the lens-frame which it fits is designated *b*, these parts being elongated, horizontal, and near the under side of the scope. The said lens-frame is provided with a hole *b'* near its center and has a latch or hook F, pivoted on its front face, so as to swing parallel therewith, catching on any part which may protrude forward through the said hole.

A headed stud E extends forward from the shaft C, preferably, as shown, from near the middle of the division-piece C'. The head of this stud passes through the hole *b'* and protrudes slightly in front of the lens-frame. The hook or latch F, being turned toward the said stud, catches on it behind the said head, hooking the lens-frame and shaft securely in position with the aid of the engaging tongue and groove aforesaid. When the stereoscope is to be packed, the hook or latch F is turned out of engagement with the said stud, the shaft and handle are easily pulled away from the lens-frame and hood, and the parts thus separated will be stowed together in packing as may be most convenient, accompanied by the usual slide or picture-holder.

In this specification I do not restrict myself to the specific devices shown for fastening the shaft and division-piece to the lens-frame, as these may be indefinitely varied, provided the means used bind the parts securely together when engaged and provide for separability, nor do I confine myself to the tongue and groove shown as a means for holding the frame and shaft in proper relation to each other, as many substitutes for such tongue and groove can readily be found. Any means or form of connection between the end of the shaft and the lens-frame which will prevent rotation of the lens-frame about the stud E (where such a stud is used) or which holds the plane of the picture-holder parallel with a plane passing through the axes of the two lenses I regard as the equivalent of said tongue and groove.

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

1. In a stereoscope the combination of a shaft with a lens-frame and a detachable fastening, the said shaft and frame being fitted together by a tongue and groove or recess, substantially as set forth. 5
2. In a stereoscope the combination of a shaft and lens-frame with a fastening-latch, the said lens-frame being provided with a hole, the said shaft having a headed stud which protrudes through the said hole, and the said latch being in such position as to be turned into engagement with the said stud behind the said head thereof, for locking the parts of the stereoscope together, substantially as set forth. 10 15
3. A stereoscope-lens frame provided with a groove or recess in its rear face, and also provided with a hole through the said frame and a hook or latch operating across the line of the said hole, in combination with a stereo- 20
- scope-shaft having a tongue or projection for fitting into said groove or recess and a headed stud protruding through said hole to be engaged by the said latch substantially as set forth. 25
4. A stereoscope-lens frame and hood fastened together, in combination with a detachable shaft having a folding handle, the said shaft being provided with projecting parts and the said frame being recessed to receive the said parts and provided with a catch for engaging one of them substantially as set forth. 30

In testimony whereof I have hereto subscribed my name, at North Bennington, Vermont, this 14th day of April, A. D. 1896. 35

HAWLEY C. WHITE.

In presence of—
FRANKLIN SCOTT,
EMILY SCOTT.