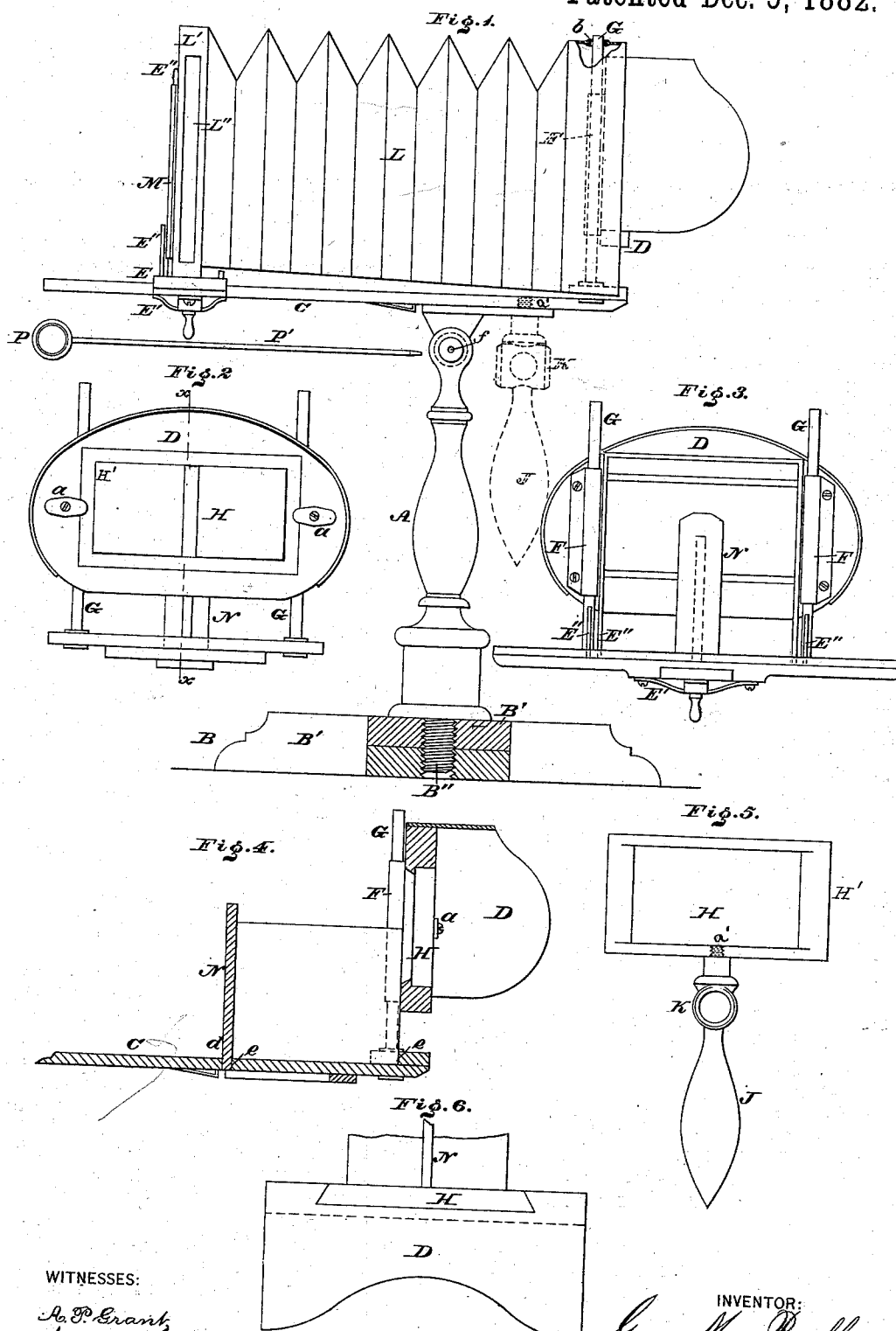


(No Model.)

G. M. POWELL.
POLYSCOPE.

No. 268,432.

Patented Dec. 5, 1882.



WITNESSES:

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GEORGE MAY POWELL, OF VINELAND, NEW JERSEY.

POLYSCOPE.

SPECIFICATION forming part of Letters Patent No. 268,432, dated December 5, 1882.

Application filed October 18, 1881. (No model.)

To all whom it may concern:

Be it known that I, GEORGE MAY POWELL, a citizen of the United States, residing at Vineland, in the county of Cumberland, State of New Jersey, have invented a new and useful Improvement in a Polyscope, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a side elevation of the polyscope embodying my invention. Fig. 2 is a front end view of a portion thereof. Fig. 3 is a rear end view of a portion thereof. Fig. 4 is a vertical section in line *xx*, Fig. 2. Fig. 5 is a view of a detached portion. Fig. 6 is a view of a modification.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of certain improvements in stereoscopic and other instruments of an analogous class, as will be hereinafter fully set forth.

Referring to the drawings, A represents a standard, which is mounted on the base B, and has pivoted to it the support C for the hood D and slide or picture-holder E, as usual in stereoscopes.

To the back of the frame of the hood D are secured vertically-extending sleeves F, which are fitted on rods G, which rise from the front end of the support C, whereby the hood may be raised or lowered or adjusted vertically, according to requirements.

The stereoscopic, graphoscopic, or other glass H is removably fitted to the frame of the hood, and held in position by buttons or other fastenings, as at *a*; or the frame of the hood may have a vertical dovetailed groove, as in Fig. 6, to receive the glass. In either case the glass may be removed and provision made for using a stereoscopic, graphoscopic, or other glass, a stereoscopic glass being shown in Fig. 2 and a graphoscopic glass in Fig. 5.

When it is not desired to employ the stand A it is disconnected from the support C, and in lieu thereof I employ the usual handle, J, with attaching-stem *a'*. (Shown in dotted lines, Fig. 1, or full in Fig. 5.) In the latter case the graphoscopic glass H, being held by the handle J, may be employed as a reading or magnifying glass, the frame H' of said glass having an

opening in its bottom to receive the connecting end of the handle. The handle J has also secured to it a microscope, K, which may be used whether the handle is attached to the glass H or the support C, or separate from either.

The picture-holder E is formed of the bottom slide, E', which is fitted to the support C, and two wires or standards, E'', for each side, so that the picture may be placed on the holder between the wires and properly sustained while being viewed through the glass.

L represents an extensible shade, cover, or bellows-frame, formed as shown in Fig. 1, for the purpose of extending the same to any desired distance at will, the forward end of which is formed with openings *b*, preferably eyeleted, so as to be fitted on the pins or standards G of the hood, and the rear end has a frame, L', with a vertical passage, L'', the latter being adapted to receive transparent pictures, &c., to be viewed through the glass. The frame L' has also secured to its back vertical sleeves M, which are adapted to be fitted on the inner wires or standards, E'', of the holder E. It will be seen that when the bellows-frame is thus connected to the hood and picture-holder it may be extended or contracted in order to adjust the focus, the frame screening the picture from light from within and producing the best effects thereon.

The divisor N of the stereoscope is made removable from the support C, and when applied thereto is firmly held in position by the part *d* entering a notch or opening, *e*, in said support C; or it may be connected to the removable glass or lens frame shown in Fig. 6, so as to be removed therewith. For stereoscopic purposes the divisor is employed, as usual; but for graphoscopic and other purposes said divisor is removed.

P represents a camera lucida, which is connected to a stem, P', the end of which is adapted to be inserted in an opening, *f*, in the standard A, thus sustaining said camera lucida and locating it in a convenient manner for its peculiar purposes.

The base B is formed of two pieces, B', crossing each other and rabbeted. A screw, B'', at the lower end of the standard is fitted into the center of the cross-pieces, as in Fig. 1, and

thus the base is firmly connected to the standard and held securely spread out. By unscrewing the standard the pieces B' may be separated and folded in compact form with the standard
5 and other parts of the implement.

It is evident that glasses for landscapes, eclipses, &c., may be applied to the frame of the hood B, and made removable, and held as in the case of the stereoscopic and grapho-
10 scopic glasses or lenses hereinbefore set forth.

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

1. The hood D, removable frame H H', having an opening in its bottom, and the support C, having means of attachment both for the stand A and handle J, said handle being adapted to be connected with said frame H H',
15 substantially as and for the purpose set forth.

2. The extensible shade or hood L, formed with a vertical passage, L'', and provided with means for attaching it at opposite ends to the hood and picture-holder, substantially as and for the purpose set forth.

3. The removable extensible shade or hood L, formed with openings b for attaching it in front to the standards G, and sleeves M for attaching it at the rear to the standards E'',
25 substantially as and for the purpose set forth.

4. The handle J, with a connected microscope, formed at one end with an attaching-stem, a', and adapted to be used with either the support C or frame H H', substantially as and for the purpose set forth.
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Witnesses:

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