J. H. Smith,

Reading Glass.

No. 107,969. Patented Oct. 4, 1870.

Fig. 1

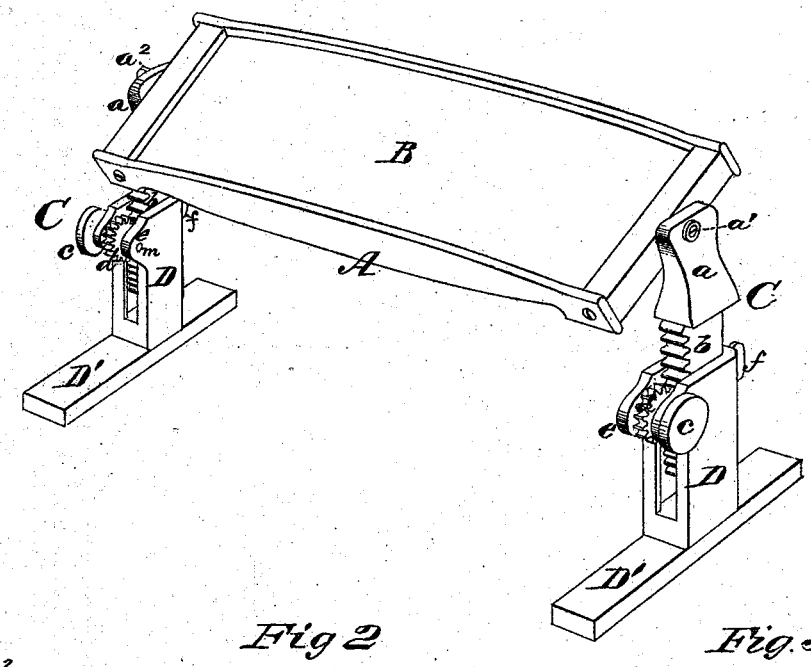


Fig. 2

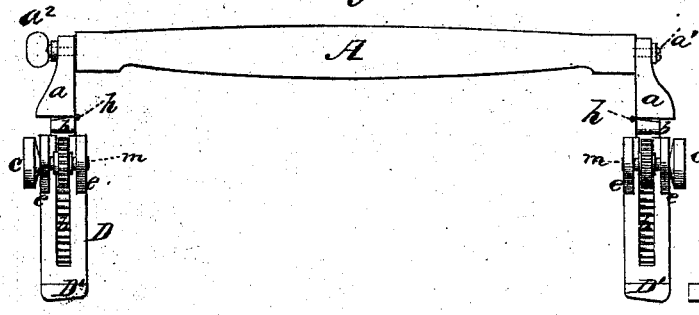


Fig. 3

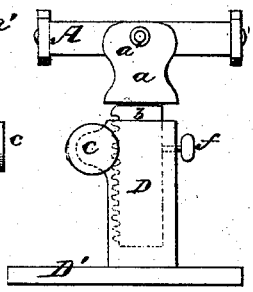
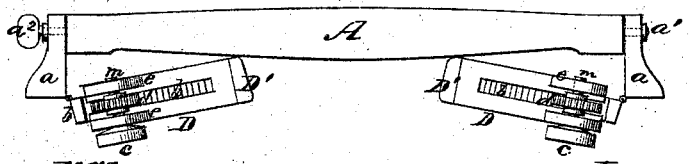


Fig. 4



Witnesses.
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J. HYATT SMITH, OF BROOKLYN, E. D., NEW YORK.

Letters Patent No. 107,969, dated October 4, 1870.

IMPROVEMENT IN READING-GLASSES.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, J. HYATT SMITH, of Brooklyn, E. D., in the county of Kings and State of New York, have invented a new and useful Reading-Glass; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a perspective view of the instrument.

Figure 2 is a front elevation of the same.

Figure 3 is an end view of the same.

Figure 4 shows the standards of the instrument folded.

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

The object of this invention is to afford public speakers a means whereby they can readily read from notes or books placed before them on a desk, while addressing an audience, without the necessity of stopping or using spectacles.

The nature of my invention consists in the employment of a magnifying glass, of suitable power, applied to a frame, which is so constructed that such glass can be arranged over a book or manuscript, and adjusted vertically, and at any desired angle, as circumstances may require.

To enable others skilled in the art to understand my invention, I will describe its construction and operation.

In the accompanying drawing—

A represents a rectangular frame, within which a double convex magnifying-glass, B, is suitably secured.

The frame A is connected, at its ends, to vertically adjustable standards, C C, by means of pivots a^1 a^2, one of which, a^2, is a thumb-screw, for fixing the frame A, and contained glass at any desired angle of inclination.

Each one of the standards C is, preferably, made of two sections, *a b*, connected by a hinge, to allow the lower portions to be folded, as shown in fig. 4, although I do not confine myself to the hinged sectional standards..

The lower sections, *b*, of the standards are toothed on their front edges, and fitted into posts D, that they may be moved up and down in such parts.

The teeth of the portions *b b* engage with spur-wheels *d d*, which are applied to short horizontal shafts *m m*, that have their bearings in offsets *e e* of the posts D.

The small thumb-wheels *c c*, which are fixed to the ends of the shafts *m m*, are used to turn wheels *d d*, and thus raise or lower the glass and its frame.

At the back of the posts thumb-screws, *f*, are applied, for the purpose of fixing the standards C C after the glass has been adjusted vertically to the required focus.

The posts rise from feet D' D', by which the instrument is sustained in a steady manner. If desirable, the standards and posts may be so constructed and applied to the frame A that their lower ends will be further apart when the instrument is erected than their upper ends, thus affording a firmer support.

From the above description it will be seen that I have adapted a magnifying-glass, to be used upon a desk or table over a book or other reading matter, and to be adjusted and set to afford the best possible view to a person standing before the said desk or table.

Having described my invention,

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

The reading instrument, adapted for the purposes herein described, consisting of a glass pivoted to legs, and which glass is adjustable, both in height and inclination, by means substantially as described.

J. HYATT SMITH.

Witnesses:

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