Aug. 28, 1928. 1,682,695

J. A. MINER

OPTICIAN'S CABINET

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Fig. 1.

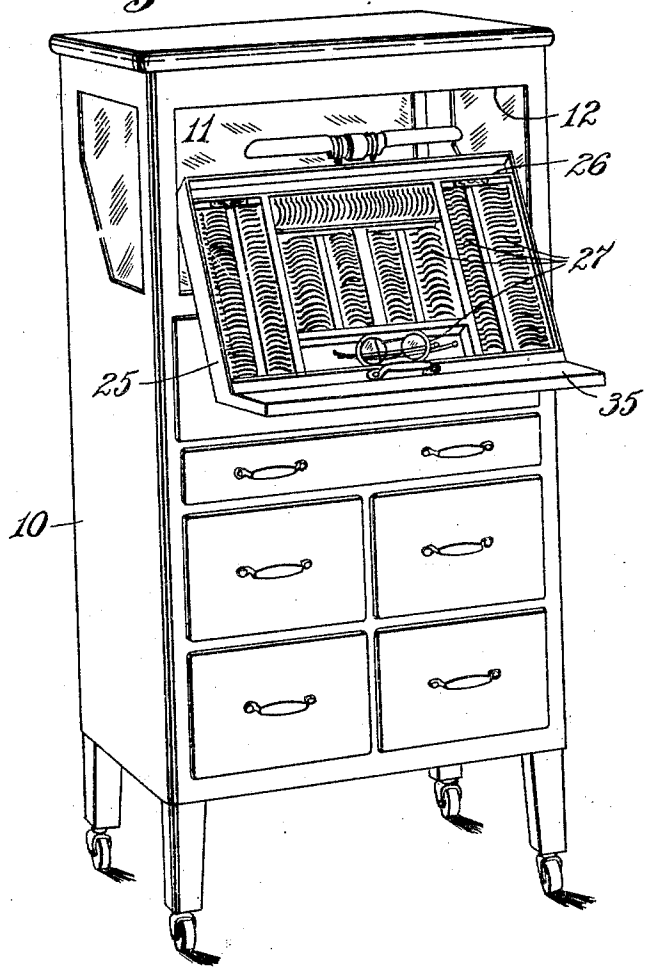
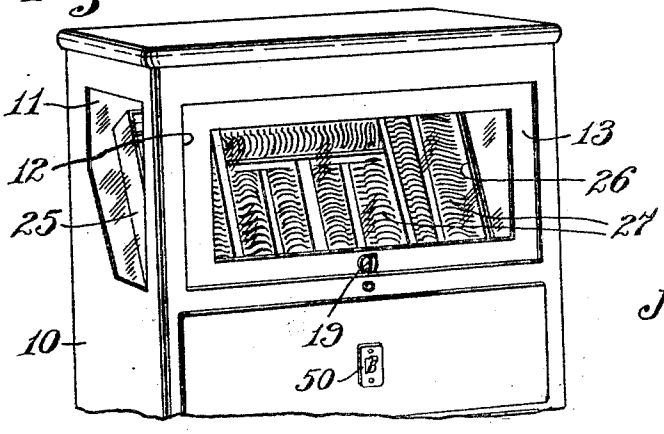


Fig. 2



INVENTOR
Joseph A. Miner,
BY
Hood + Hahn,
ATTORNEYS

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Fig. 3.

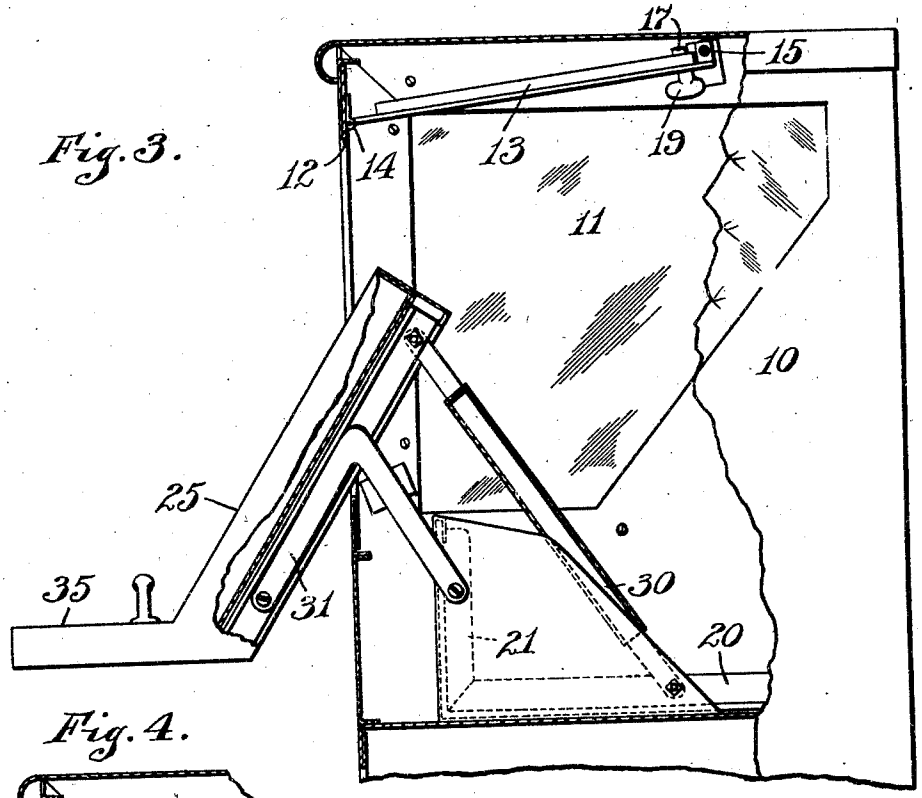


Fig. 4.

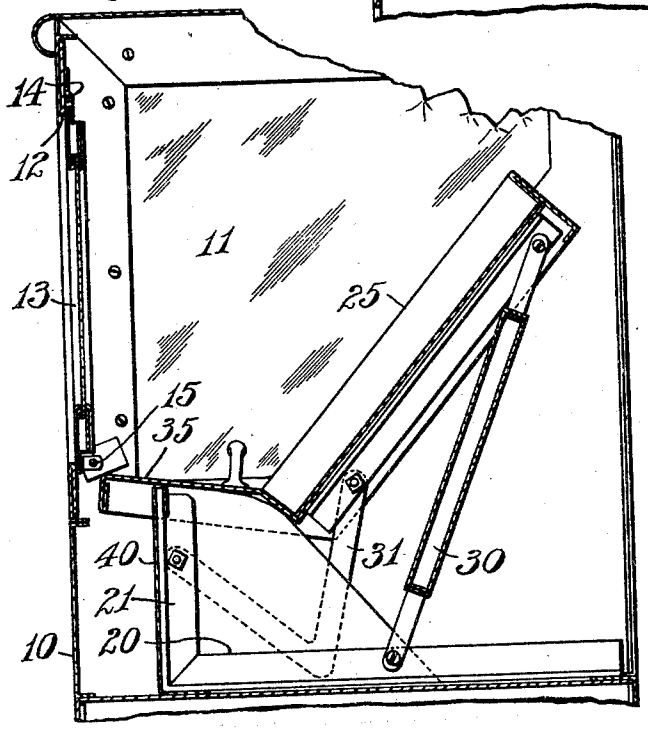
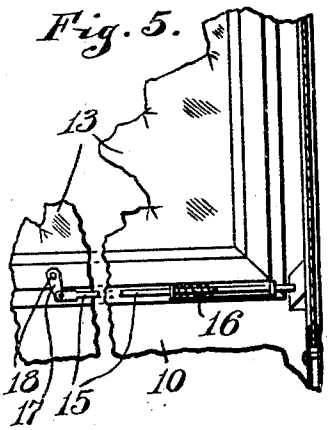


Fig. 5.



INVENTOR
Joseph A. Miner,
BY
Hood & Hahn
ATTORNEYS.

Patented Aug. 28, 1928. 1,682,695

UNITED STATES PATENT OFFICE.

JOSEPH A. MINER, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO AMERICAN METAL FURNITURE CO., OF INDIANAPOLIS, INDIANA, A CORPORATION OF INDIANA.

OPTICIAN'S CABINET.

Application filed July 5, 1927. Serial No. 203,467.

The equipment used by opticians and oculists, comprising a large number of test lenses, test frames, etc., is an expensive equipment and as a general rule floor space is at a premium.

The object of my present invention is to provide a cabinet especially constructed for the safe storage of the aforesaid lens equipment, the construction being such that the lens tray with the lenses may be brought quickly into accessible position; such that a minimum amount of floor space is required; and such that, while the lens tray in its storage position may be completely enclosed and protected, the closure may be opened inwardly so that when the lens tray is in accessible position there will be no projecting closures in the way of the operator.

The accompanying drawings illustrate my invention.

Fig. 1 is a perspective view of my improved cabinet with the lens tray in exposed or accessible position;

Fig. 2 is a fragmentary view of the upper portion of the cabinet with the tray in storage position;

Fig. 3 is a central vertical section with the tray extended;

Fig. 4 is a central vertical section with the tray in storage position, and

Fig. 5 is an inner elevation of the tray compartment closure.

In the drawings 10 indicates a cabinet of desired height and construction having a tray compartment 11 in its upper part, said tray compartment being accessible through an opening 12 which may be closed by an inwardly opening door 13 hinged along its upper edge at 14 and provided with a locking rod 15 at its lower edge, said rod being normally projected by a spring 16 and taking into suitable holes in the casing so as to retain the closure 13 in either closed or open position, the rod 15 being connected to a crank arm 17 carried by a rock shaft 18 provided at its outer end with a butterfly head or knob 19.

Secured to the bottom of compartment 11 are two L shaped brackets 20 having their short vertical arms 21 toward the front, said arms ending just below the plane of the lower part of opening 12.

The tray 25 is of such form and proportion as to be capable of receiving a standard tray 26 of testing lenses 27 and is supported at each end by a pair of links 30 and 31. Link 30 is a straight link pivoted to tray 25 near its upper inner end and pivoted at its lower end to the horizontal arm of a bracket 20. Link 31 is a V shaped element one end of which is pivoted to tray 25 near its lower edge and the other end of which is pivoted to a vertical arm 21 of a bracket 20. The construction, proportion and arrangement of the tray 25 and the links 30, 31 are shown with considerable accuracy in the drawings because unless the parts are properly proportioned the movement of the tray will not be exactly as desired. Along the lower edge of tray 25 I provide a shelf or ledge 35 which lies at such angle to the tray that when the structure is extended as shown in Figs. 1 and 3, the tray will be inclined upwardly and rearwardly at a convenient angle while the ledge 35 will extend forwardly and substantially horizontally so as to form a convenient shelf upon which individual lenses, the testing frame, etc., may be temporarily placed.

It will be noted that, when the tray is in extended position, one arm of each link 31 lies against the rear face of the tray and thus forms a solid stop and support for the tray in its extended position. When the tray is carried back to storage position shelf 35 will rest upon the upper ends of arms 21 of brackets 20 and thus be firmly supported.

In order to stabilize the brackets 20 they are connected by a sheet metal connector 40.

When the tray 25 is in its storage position it lies clear of the arc of travel of the free end of door 13 so that said door may be swung freely to open or closed position without striking anything normally intended to be supported by and stored in tray 25.

Secured to the upper edge of the tray is a double lamp socket adapted to receive a pair of oppositely extending electric lamps, the said socket being wired with flexible wires in circuit with the controlling switch 50 accessible from the exterior of the cabinet.

I claim as my invention:

1. The combination with a cabinet forming a storage chamber having an inwardly and upwardly swinging closure door, of an inclined storage tray mounted in said compartment, and a pair of links pivotally connected to said tray near the upper and lower edges respectively thereof, said links being

pivotally connected to a support within the compartment and the forward lower link being V-shaped, substantially as described, whereby the tray will be supported, in its retracted position, beyond the arc of movement of the swinging closure and be projectable outwardly and downwardly through the compartment opening.

2. The combination with a cabinet forming a storage chamber having an inwardly and upwardly swinging closure door, of an inclined storage tray mounted in said compartment and provided along its lower edge with a shelf lying at an obtuse angle to the main body of the tray, and a pair of links pivotally connected to said tray near the upper and lower edges respectively thereof, said links being pivotally connected to a support within the compartment and the forward lower link being V shaped, substantially as described, whereby the tray will be supported, in its retracted position, beyond the arc of movement of the swinging closure and be projectable outwardly and downwardly through the compartment opening.

3. As an article of manufacture, an L shaped base structure having horizontal and vertical arms, a pair of V shaped links pivotally connected to the vertical arms, a pair of links connected to the horizontal arm, and an inclined tray pivotally connected to and supported by said two links, the construction and arrangement being such that the tray may be supported by said links in either a retracted inclined position or a protracted inclined position substantially as shown and described.

4. As an article of manufacture an L shaped base structure having horizontal and vertical arms, a pair of V shaped links pivotally connected to the vertical arms, a pair of links connected to the horizontal arm, and an inclined tray pivotally connected to and supported by said two links and provided along its lower edge with a shelf lying at an obtuse angle to the tray proper, the construction and arrangement being such that the tray may be supported by said links in either a retracted inclined position or a protracted inclined position substantially as shown and described.

In witness whereof, I, JOSEPH A. MINER, have hereunto set my hand at Indianapolis, Indiana, this 29th day of June, A. D. one thousand nine hundred and twenty seven.

JOSEPH A. MINER.