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PATENTED JUNE 30, 1908.

E. BADE & A. KOWASTCH.

MEANS FOR MOUNTING AND PRESERVING BIOLOGICAL SPECIMENS.

APPLICATION FILED MAR. 16, 1907.

Fig. 1.

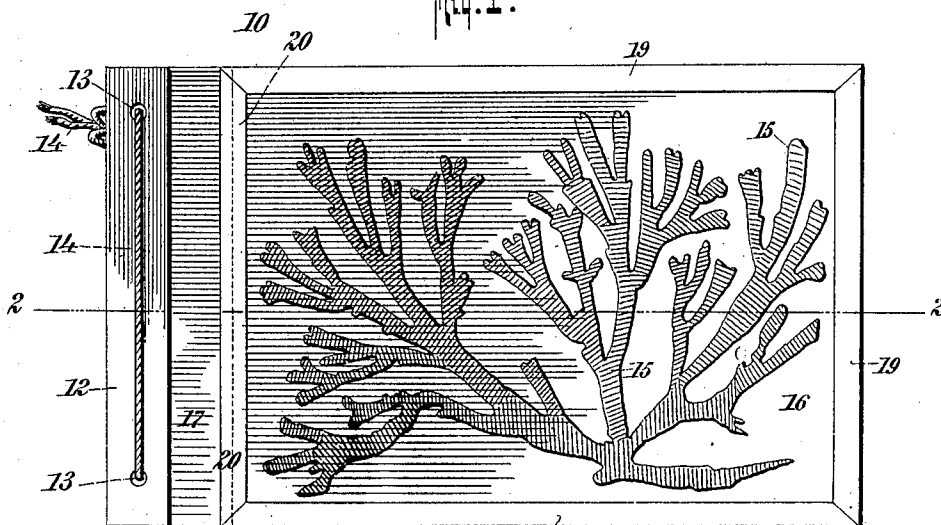


Fig. 2.

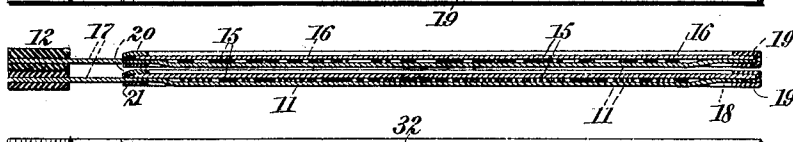


Fig. 3.

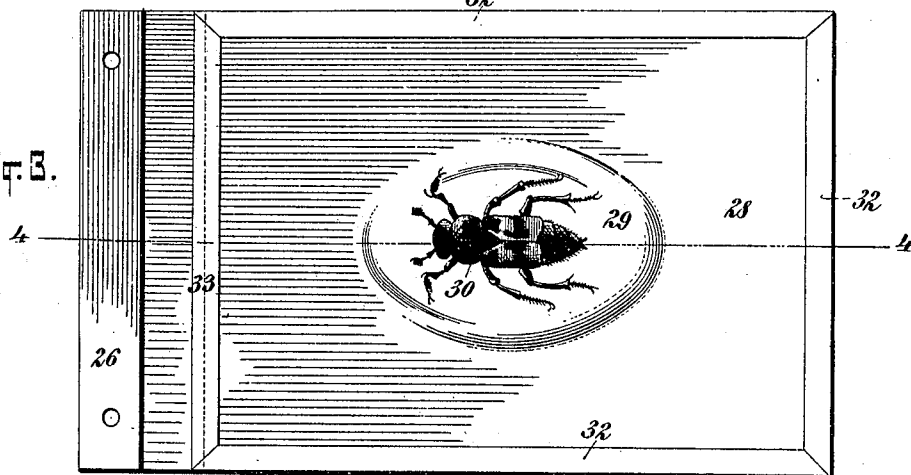


Fig. 4.

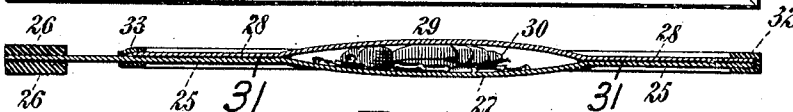
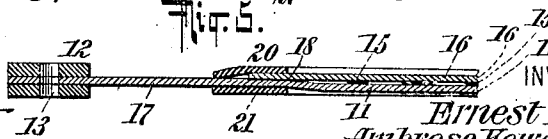


Fig. 5.



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MEANS FOR MOUNTING AND PRESERVING BIOLOGICAL SPECIMENS.

No. 891,971.

Specification of Letters Patent.

Patented June 30, 1908.

Application filed March 16, 1907. Serial No. 362,613.

To all whom it may concern:

Be it known that we, ERNEST BADE and AMBROSE KOWASTCH, residing, respectively, in the borough of Brooklyn, Kings county, and borough of the Bronx, New York county, in the city and State of New York, have invented certain new and useful Improvements in Means for Mounting and Preserving Biological Specimens, of which the following is a full, clear, and exact specification.

Our invention relates to improvements in means for mounting and preserving biological specimens, and the same has for its object more particularly to provide a simple, efficient, convenient and compact means for mounting and preserving botanical, entomological and other specimens.

Further, said invention has for its object to provide means for the purposes aforesaid which may be readily bound or secured together in the form of a book, comprising a large number of flexible or pliable sections or leaves.

Further, said invention has for its object to provide a means for the purposes aforesaid, consisting of a plurality of transparent, flexible sections between which a specimen may be secured, and said sections then so secured together as to prevent all access of air to said specimen.

Further, said invention has for its object to provide a means for the purposes aforesaid which is so constructed and arranged that a preserving medium may be confined, together with the specimen, between the several sections, and

Finally, said invention has for its object to provide a mount for the purposes aforesaid which is so constructed and arranged that the same may be used to produce by contact photographic negatives from which prints may thereafter be made, bearing all the characteristics of the original.

To the attainment of the aforesaid objects and ends our invention consists in the novel details of construction, and in the combination, connection and arrangement of parts hereinafter more fully described and then pointed out in the claims.

In the accompanying drawings forming part of this specification wherein like numerals of reference indicate like parts, Figure

1 is a plan or face view of a mount constructed according to and embodying our said invention; Fig. 2 is a longitudinal section taken on the line 2—2 of Fig. 1; Fig. 3 is a plan or face view showing a modified construction; Fig. 4 is a longitudinal section thereof taken on the line 4—4 of said Fig. 3, and Fig. 5 is an enlarged detail section showing one end of a mount and the attaching means thereon.

In said drawings 10 designates a mount comprising a support-section consisting of a thin, flexible, rectangular sheet or section of transparent material 11, such as celluloid or analogous substance, having narrow reinforcing or binding strips 12, 12 of cardboard or similar substance secured thereto above and below the same along one of its edges and provided with apertures 13, 13 to receive a binding medium or cord 14.

Upon the upper surface of the support-section 11 is secured by means of glue or other suitable adhesive agent the specimen to be mounted or preserved; in the present instance shown as a botanical specimen 15, and upon the upper surface of said support-section 11, and over the specimen 15 secured thereon is disposed a thin, flexible, transparent cover-section 16 made of like material as the support-section. 11. The said cover-section 16 corresponds in width with said support-section 11 but is made somewhat shorter in length in order to provide an attaching flap 17 to the outer edge of which are secured the reinforcing, binding strips 12, 12 and thus forming a flexible portion between the inner edge of the cover-section 16 and the inner edges of the strips 12, 12, which will permit of the turning over of the mounts when the same are bound together, without causing the united cover and support section to buckle or spring apart.

The upper, lower and outer edges of the cover-section 16 are arranged in register with the corresponding edges of the support-section 11. The upper surface of the support-section 11, and the under surface of the cover-section 16 are secured together along their edges by a thin layer of glue or balsam 18, in order to effectually exclude all access of air to the specimen, and thereupon the upper, outer and lower edges of the united sections

or plates 11, 16 are inclosed with a binding of paper or other material 19 which is secured to the upper or outer surface of the cover-section 16 and the lower or bottom surface of the support-section 11.

At the inner edge of the upper or cover-section 16 is provided a single strip or binding 20 of which one half is secured longitudinally to the inner edge of said cover-section 16, and the other half secured to the upper surface of the lower or support-section 11 between the binding strip 12, and the inner edge of said upper section 11, and upon the under side of the lower section 11 directly below the strip of binding 20 is secured a similar strip of binding 21 which is secured entirely to the lower or support-section 11, and serves to conceal the joint of the inner edge of the upper or cover-section 16 with the lower or support-section 11, and at the same time serves to reinforce the structure at said point.

In the modification illustrated at Figs. 3 and 4, we have shown a construction more particularly adapted for zoological specimens which are too large in body to permit of their insertion between two flat plates, without injuring or destroying the same. In said modification the lower or support-section 25 is constructed and proportioned as above described, and provided along one of its edges with binding strips 26, 26, and in the center said support-section is provided with a shallow concave recess or depression 27. The upper or cover-section 28 is also proportioned as above described, but in addition is provided at its center with a shallow convex recess or depression 29 which registers with the concave recess 27 in the lower or support-section 25, and the two conjointly form a receptacle for the specimen 30. In this construction substantially the entire flat under surface of the upper or cover-section 28, and the corresponding upper surface of the lower or support-section 25 may be secured together by a layer of glue, or other transparent adhesive substance 31, in order to prevent all access of air to the specimen, and to maintain any desirable or necessary liquid or solid preserving agent duly within the receptacle containing the specimen to be preserved. Hereupon the upper and lower sections 25, 28, may be secured together by a binding 32, 33 as hereinabove described.

It will, of course, be obvious that for different sizes of specimens the recesses 27, 29 must be varied in size and form, and that in some instances only one of the sheets or sections need be recessed to accommodate the specimen.

Further, a special feature of our invention is to provide a mount for specimens which may be readily used for producing negatives

from which photographic prints may be made. In carrying out this feature of our invention it simply becomes necessary to take a mount, for example, such as shown at Figs. 1 and 2, and then place a sheet of sensitized paper, face down, upon the mount as shown, and thereupon expose the same with the mount uppermost to the light for the appropriate period of time. This will yield a negative of the specimen which after having been duly fixed may be used to make contact prints therefrom in the usual and well known manner.

Having thus described our invention, what we claim and desire to secure by Letters Patent is:

1. A mount of the character described, comprising a flexible, transparent support-section, a flexible, transparent cover-section therefor, means for securing said sections together, and an attaching member for said mount integral with one of said sections, substantially as specified.

2. A mount of the character described, comprising a flexible, transparent support-section, a flexible, transparent cover-section of smaller outline than said support-section, and means for securing said support and cover sections together, the projection portion of the larger of said sections forming an attaching member arranged along one edge of said mount, substantially as specified.

3. A mount of the character described, comprising a flexible, transparent support-section, a flexible, transparent cover-section therefor, means for securing said cover section along its edges to said support-section, an attaching member integral with said support-section and extending beyond said cover-section at one of its ends, and reinforcing strip secured to the opposite surfaces of said attaching member, substantially as specified.

4. A mount of the character described, comprising a flexible, transparent support-section, a flexible, transparent cover-section therefor having a central recessed portion, means for securing said sections together, and an attaching member for said mount integral with one of said sections, substantially as specified.

5. A mount of the character described, comprising a flexible, transparent support-section, a flexible, transparent cover-section of smaller outline than said support-section having a central recessed portion, and means for securing said support and cover sections together, the projecting portion of the larger of said sections forming an attaching member arranged along one edge of said mount, substantially as specified.

6. A mount of the character described, comprising a flexible, transparent support-

section having a central concave portion, a
cover-section having a central convex por-
tion registering with the concave portion of
said support-section, means for securing said
5 cover-section to said support-section, and an
attaching member integral with one of said
sections and projecting beyond the other of
said sections along one edge thereof, sub-
stantially as specified.

Signed at the city of New York, in the 10
county and State of New York, this ninth
day of March, nineteen hundred and seven.

ERNEST BADE.
AMBROSE KOWASTCH.

Witnesses:

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EARLE H. HOUGHTALING.