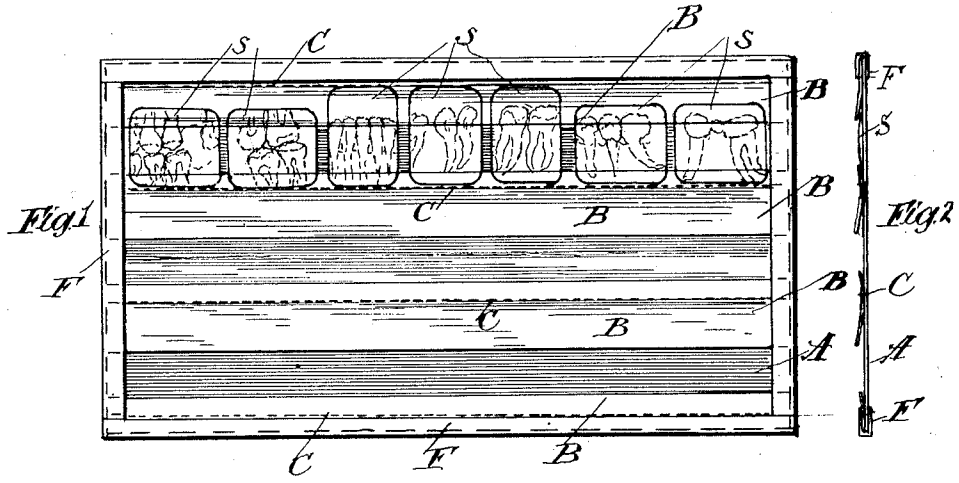
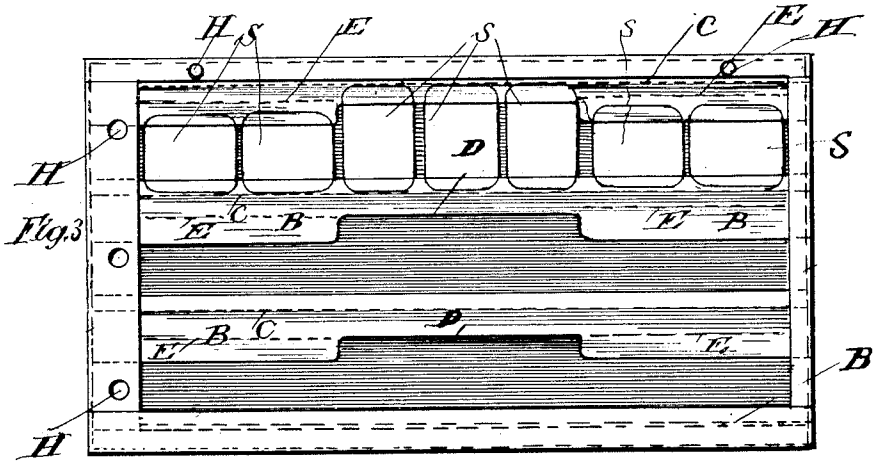
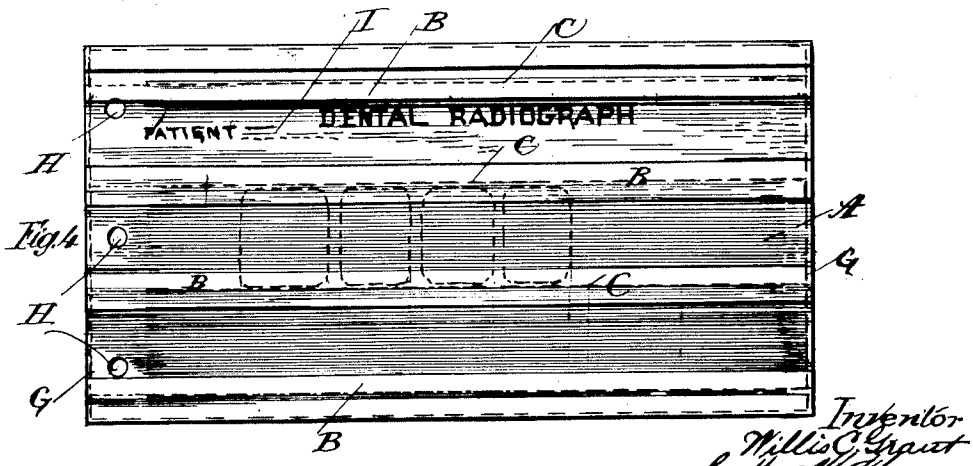
Oct. 8, 1929. W. C. GRANT 1,730,883

TRANSPARENT HOLDER FOR ROENTGENOGRAPHS

Filed Nov. 1, 1926







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Patented Oct. 8, 1929 1,730,883

UNITED STATES PATENT OFFICE

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TRANSPARENT HOLDER FOR ROENTGENOGRAPHS

Application filed November 1, 1926. Serial No. 145,680.

The objects of the invention are to provide a translucent or transparent holder for receiving X ray films or Roentgenographs prepared for surgical exposition of human teeth.

This holder is constructed in such a manner that the films can be readily attached thereto and detached therefrom and which permits of their arrangement in any chosen order of display in parallel channels, and also permits the films to be vertically or horizontally displayed in the same channels, thus greatly enlarging the field of usefulness of the device.

This holder may be employed in many ways, as for a filing record, for the surgical work of a dental or other surgeon, or for display mounts for reference to particular cases, or for demonstration comparison of cases, or for historical records of the treatment of a particular case, from the reception of the case until favorable termination.

It can also be constructed of any size to adapt it for holding Roentgenographs of a large variety of surgical cases and can be bound with other exhibits in book form or may be hung in a window or displayed before a lens.

The invention includes a base member or flexible mount comprising a sheet of translucent or transparent material, such as celluloid, upon which the films are superimposed in parallel spaced rows, so that they can be separately obesrved by transmitted light, or by the use of a calcium light can be thrown upon a screen for study.

The films or Roentgenographs are secured in their places by means of transparent flexible bands or strips transversely secured to the base sheet at spaced intervals in such a manner that the films may be selectively arranged in series, or groups, and may be made interchangeable thereon, and of any desired number in a group, and the groups may be either in vertical or horizontal rows thereon, and the individual films are slidable horizontally in their retaining strips to selected positions upon the base sheet, so that the progressive treatment of a surgical case may be exposed for study.

These transverse strips may be made of colorless celluloid and may be attached to the base sheet by means of a median line of longitudinal stitches, thus providing overhanging keepers on both longitudinal edges, underneath which sets of films may be frictionally held for observation.

These sheets may be reinforced by means of thin marginal bands to provide a rigid frame and to permit handling without leaving finger prints on the sheet, and to prevent the films from being scratched when stacked upon each other and to prevent the films from sliding out, or in a simpler form a marginal line of stitches will retain the films in place.

Also a strip of opaque printed celluloid or a card may be inserted between adjacent rows of guiding strips, upon which a description or record of the films displayed upon the sheet can be made.

The invention comprises the forms of construction and combination and arrangement of parts, hereinafter more fully described, illustrated in the accompanying drawings, and specifically pointed out in the claims.

In the accompanying drawings, Fig. 1 is a plan of one form of the device in which the guide strips are each attached to the base sheet by a line of stitches nearer to one edge of the strip than to the other, thus permitting the films to be arranged either vertically or horizontally therebetween so as to accommodate Roentgenographs elongated either horizontally or vertically.

Fig. 2 is a vertical transverse section thereof.

Fig. 3 is a plan of a modified form of the same arranged for both vertically and horizontally arranged films.

Fig. 4 is a plan of a holder for uniformly positioned films.

In these views A represents a base sheet formed of transparent or translucent material so that the Roentgenographs can be displayed at any point thereon.

B, B, are the parallel guide strips or holders for the films. These strips are made of flexible material preferably transparent, so as not to intercept the view of the object in the Roentgenograph.

These strips are each attached to the sheet

upon a line C, C, spaced from the longitudinal edges of the strip and are arranged in spaced parellel lines on the sheet so that the films will slide freely between them to any part of the sheet.

In Figs. 1 and 3 the lines of stitches C are placed near the upper edges of the upper strips thus making their holding edges wider, and in this manner permitting oblong films to be secured either vertically or horizontally upon the same line, also by this means provision is made for holding a series or number of films of different heights on the same line when desirable.

If desired the upper strips can be cut away on their lower edges, intermediate of their ends at D, D, Fig. 3, to facilitate the introduction of oblong films, and in this instance smaller films can be slid through this opening towards either side of the holder.

Also a lower line of stitches E, E, may be employed to secure smaller films.

A frame F of thin reinforcing material such as celluloid or metal may be employed, or in simple cases the vertical edges may be protected by means of lines of stitches G, G which also prevent the films from falling out.

Several sheets when prepared in this manner may be bound together in book form by making spaced openings H, H, in one edge through which binding rings may pass. In this manner a convenient book for office demonstration may be made. Also if the openings are made in the top edge the sheets may be hung in a window as a transparency.

The device may be employed to hold other objects for exposition or filing record.

Also a plain card I may be inserted at any convenient point on the sheet upon which the title or record of the sheet may be written or printed.

Having described the invention, what I claim as new and desire to secure by Letters Patent is:

1. In a holder for a multiple number of flexible X-ray films in combination with said films, a transparent supporting sheet therefor, of transparent parallel film-holding strips transversely secured across said supporting sheet at spaced intervals thereon, said films being slidably movable between the longitudinal edges of adjoining strips.

2. In a holder for a multiple number of flexible X-ray films in combination with said films, a transparent supporting sheet therefor, of transparent parallel film-holding strips transversely secured across said supporting sheet at spaced intervals thereon, said films being slidably movable between the longitudinal edges of adjoining strips and a longitudinal line of stitches intermediate of the longitudinal edges of each strip and connecting said strip with said supporting member.

3. In a holder for a multiple number of flexible X-ray films in combination with said films, a transparent supporting sheet therefor, of transparent parallel film-holding strips transversely secured across said supporting sheet at spaced intervals thereon, said films being slidably movable between the longitudinal edges of adjoining strips and a longitudinal line of stitches intermediate of the longitudinal edges of each strip and connecting said strip with said supporting member, said line of stitches being nearer to one longitudinal edge of said strip than to the other, thus permitting said films to be either vertically or horizontally disposed between adjoining strips.

4. In a holder for flexible X-ray films in combination with said films, a transparent supporting sheet therefor, of transparent parallel film-holding strips transversely secured across said supporting sheet at spaced intervals thereon, said films being slidably movable between the longitudinal edges of adjoining strips and a longitudinal line of stitches intermediate of the longitudinal edges of each strip and connecting said strip with said supporting member, and lines of stitches adjacent to the vertical margins of said sheet for preventing the lateral escape of said films from between said adjoining strips.

5. In a holder for flexible X-ray films in combination with said films, a translucent base sheet therefor, of spaced pairs of transparent parallel film-holding strips transversely secured across said base sheet at spaced intervals thereon, said films being slidably movable between the longitudinal edges of adjoining strips and a longitudinal line of stitches intermediate of the longitudinal edges of each strip and connecting said strip with said base member, the upper one in one adjoining pair of strips being cut away upon its lower edge to permit of the easy introduction of oblong films, and second lines of stitches at a lower level, for the retention of smaller films, on both sides of said cut away edge.

In testimony whereof I hereunto affix my signature.

WILLIS C. GRANT.