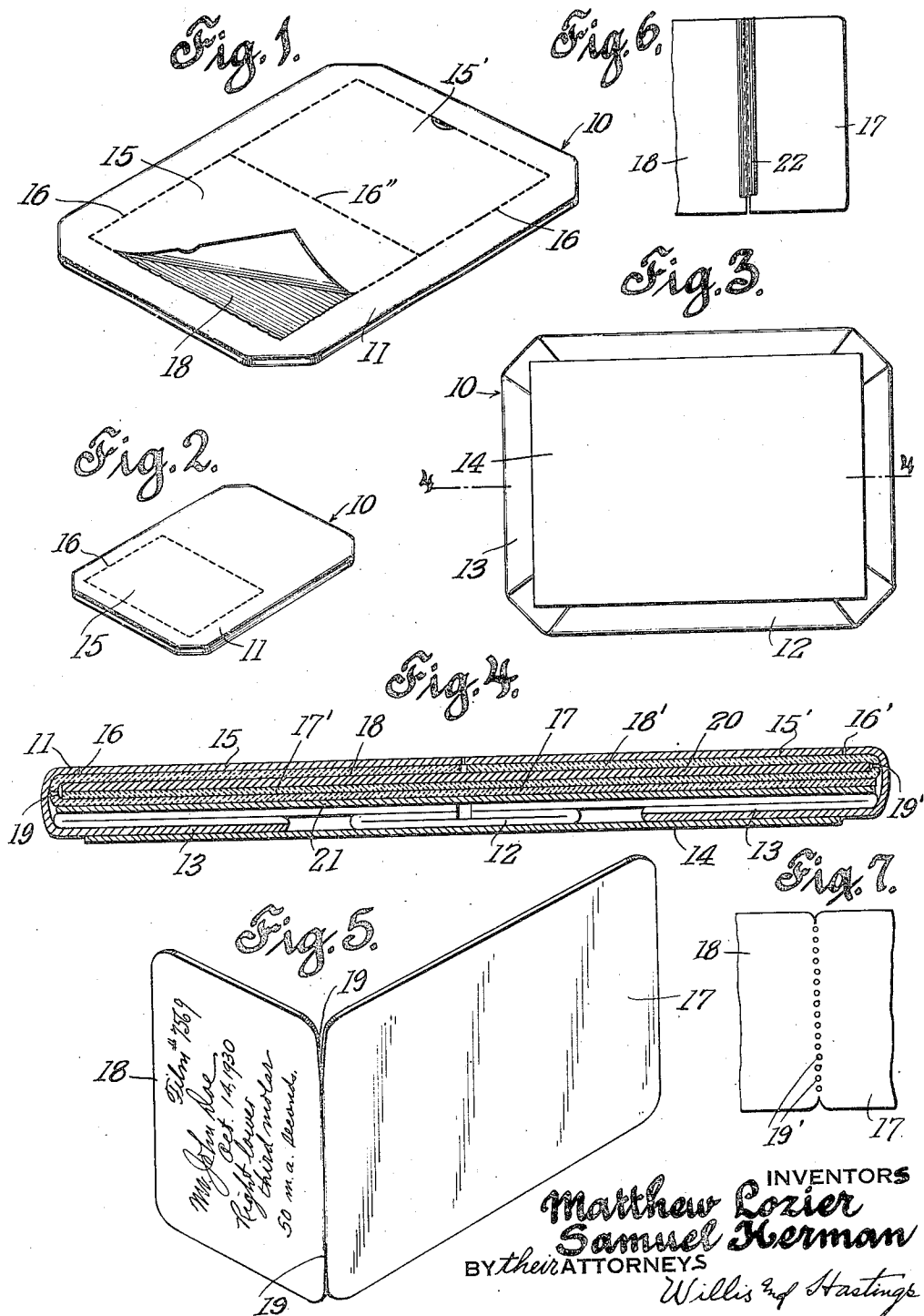


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IDENTIFICATION X-RAY FILM

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IDENTIFICATION X-RAY FILM

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This invention relates to improvements in films having at least one emulsified surface sensitive to actinic light, fluoroscopic or other rays as used in photography for any purpose and with special reference to films adapted for dental, surgical and like practice, together with their packages and the processes employed in their use.

As the usual photographic films are not equipped with means to receive a direct record or identifying date it is necessary to mark the same in some manner, usually after exposure, with a distinguishing character, as a numeral, and record any important data, as name, date, location of area radiographed, etc., etc., on a separate object, as a card or the like, bearing the same character, and after the film has been developed, washed, dried and mounted, the record may be transferred to the mount.

Such operations consume considerable time, are open to possible error leading to confusion, and a further objectionable feature existing in common films, is the necessity of using a mount for each individual film for its preservation and manipulation.

Having these matters in mind it has been an object of the present invention to provide a film having an extension from one of its edges, susceptible of receiving an inscription of any desired nature, the same being permanent and in nowise affected by the light rays when the film is exposed to them.

A further feature is in the provision of tab elements on the films so arranged as to permit the use of two films in one packet, the tabs requiring no change in the voltage or milliamperage of the current, or in any way affecting, or being affected by, the developing and fixing baths to which the films are subjected.

Another purpose is to produce an improved film by which the use of individual mounts may be eliminated, handling of the developed film and its accompanying data being rendered easy and convenient.

These and other important advantages, which will become apparent as the description progresses, are accomplished by the novel construction, and combination of parts, and

of processes hereinafter described, as illustrated in the accompanying drawings, forming a material component of this disclosure, and in which:—

Figure 1 is a perspective view of a packet of films made in accordance with the invention, looking from the rear side thereof.

Figure 2 is a view showing a modification in packet construction.

Figure 3 is a plan view looking from the opposite side of the packet.

Figure 4 is a transverse sectional view taken on line 4—4 of Figure 3, and drawn to an increased scale.

Figure 5 is a perspective view of the film in detail.

Figure 6 is a fragmentary plan view of a film having a tab connected by a hinge member.

Figure 7 is a similar view showing a row of perforations on which the tab may be folded.

As seen in the several views, a conventional type of packet 10 is employed to contain the film, the packet consisting of an envelope or wrapper formed from a sheet of strong opaque paper, impenetrable to ordinary light, but pervious to X-rays, the blank being folded to present a flat outer surface 11, its side and end portions 12 and 13 respectively being folded upon themselves and tucked in to be held by a gummed seal or label 14.

In the present construction it is preferred to form panels 15—15' in the outer wall 11 of the wrapper by rows of perforations 16—16' disposed to enclose two oblong rectangles, thus rendering it easy to remove either of the panels or both at will and without the aid of any instrument, or a single removable panel may be used as in Figure 2.

Two separate films are preferably enclosed in each packet, each film consisting of a main body portion 17 and one or more extending tab portions 18 adapted to be bent transversely and folded upon the main body by reason of opposed inreaching notches 19, a row of perforations 19' or weakening lines of any approved character whereby folding is facilitated.

Disposed between the tab and body is a

thin sheet of metal lead 20, and between the two films and inturned edges or label side of the packet, is usually disposed a sheet of absorbent paper 21.

One or both sides of the film may be provided with emulsion, the exposure being made from the folded seal or label carrying side of the packet.

From the foregoing it will be seen that the tab may remain permanently as part of the film or be removed at will; that the inscription can be made in daylight without injury to the main body, upon turning the panels outwardly, and that it is not affected by the X-rays when the film is exposed to them.

It will be understood that the inscription removes the emulsion, covers the emulsion or even penetrates the film as the writing is done; in either case the tab changing to a different color as compared with the inscription, when the film is developed by the usual standard developer and fixer.

If it be preferred the tabs, in place of being integral with the film, may be made separately and attached by any means, such as a hinge-like strip 22, as seen in Figure 6 or other analogous device.

It is furthermore obvious that the inscribed tab is convenient for use in the manner of a handle in viewing the film without danger of scratching or marring its surface, as sometimes occurs when a mount is used, but the tab does not prevent the use of a mount if for some reason it be desired.

Although the improvements have been described with considerable detail and with respect to certain particular forms of the invention, it is not desired to be limited to such details since many changes and modifications may well be made in the form, arrangement, proportions and sizes, without departing from the spirit and scope of the invention in its broadest aspect.

Having thus described the invention, what is claimed as new and desired to secure by Letters Patent, is:—

1. A photographic packet having a removable panel, a film provided with a flexible tab on one of its edges folded to extend under said panel, and a lead sheet interposed between said tab and the main portion of said film.

2. A photographic packet having a removable panel, a film having a flexible tab connected to one of its edges and folded to extend under said panel, and a leaden sheet between said tab and said film.

3. A photographic packet having a displaceable panel, and a film having one surface completely covered with an emulsion and the other plain, a tab susceptible of receiving an inscription connected to one of the edges of said film and normally folded to extend under said panel, and a leaden

sheet disposed between said tab and the surface of said film bearing the emulsion.

4. In a packet for a photographic film, a film having a closely folded extensible tab, a wrapper to enclose said tabbed film, a metallic sheet interposed between the film and tab, and a removable panel integral with said wrapper which upon removal discloses the film tab.

5. In a packet for a photographic film, a film having a closely foldable tab partially separated therefrom, a light obscuring envelope completely enclosing said film and tab, said tab being adjacent the wall of the envelope, a panel integrally formed in the wrapper wall over said tab, which upon removal gives access to the tab, said panel being partially separated from the wall by marginal perforations, and a lead sheet interposed between the tab and film.

In testimony whereof we affix our signatures.

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