April 5, 1949. T. R. KOHLER 2,466,444

MEANS FOR PRINTING INDICIA ON PHOTOGRAPHS

Filed June 12, 1946

Fig. 1

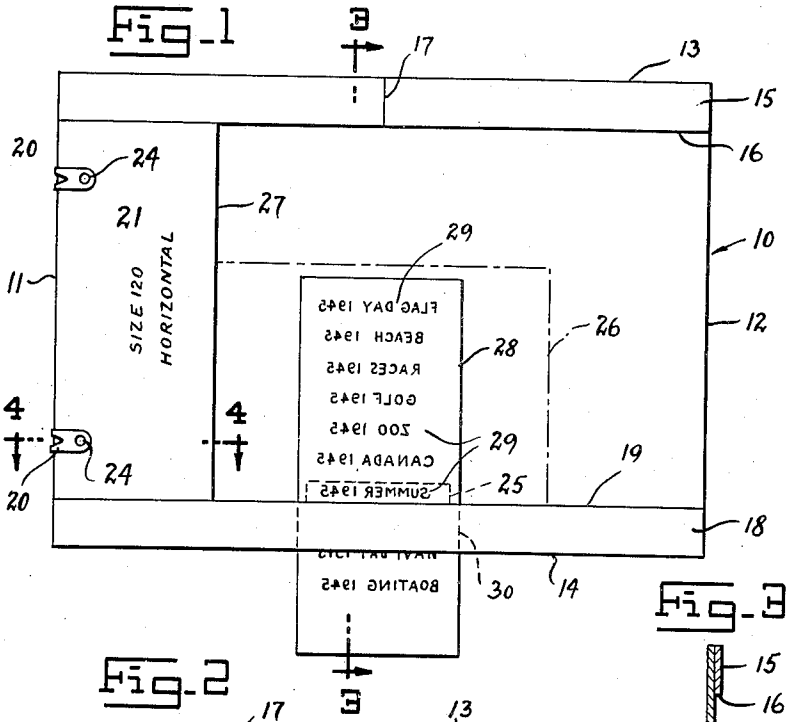


Fig. 2

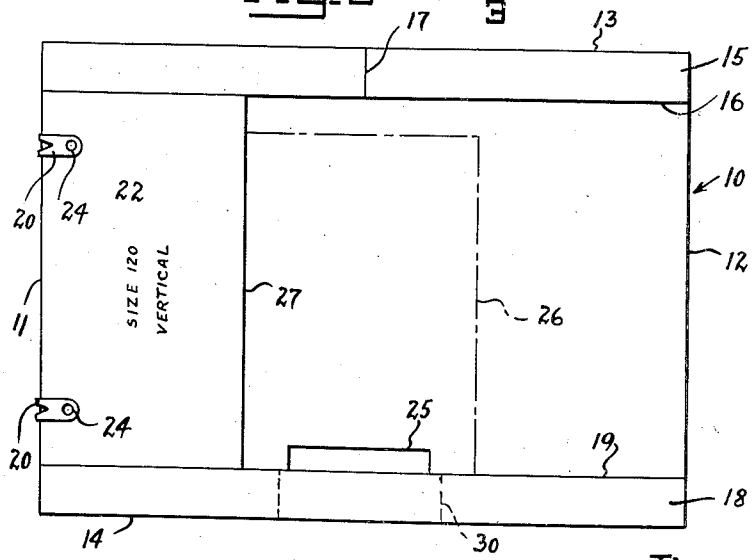
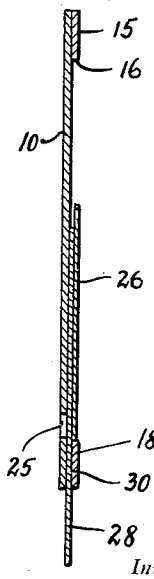


Fig. 3



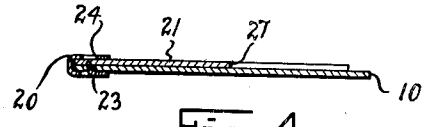


Fig. 4

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MEANS FOR PRINTING INDICIA ON PHOTOGRAPHS

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4 Claims. (Cl. 95—1.1)

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This invention relates to a means for printing on photographs, and more particularly for printing titles or dates thereon, indicating the subject matter or occasion on which the snap-shot is taken, or the date of the picture, to recall certain events to identify the particular photographs or pictures in question.

Another object of the invention is to provide a novel means by which photographs horizontally or lengthwise, as well as vertically or crosswise, may be marked at either end, according to the direction in which the picture is taken, so that the identifying information may be printed under the picture or photograph to identify the same.

Another object of the invention is to provide a novel means for printing a title or date on the sensitized paper upon which the picture is printed from a film, after the film has been developed, so as to produce directly on the sensitized paper on which the picture is subsequently printed, the identifying data, title or date or a combination thereof identifying the photograph, the means for printing on the photograph or sensitized paper on which the picture is printed from the film, being designed to accommodate various sized films, arranged either vertically or horizontally without modification of the holding structure, so that various sized photographs will be accommodated simply by replacing an adjusting or compensating strip or sheet in the holder.

Other objects and advantages will be apparent from the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a face view of a holder by which the method of printing on photographs is accomplished, and showing the method employed for printing titles or dates thereon.

Figure 2 is a similar view for printing on a photograph or sensitized sheet on which a picture is to be printed, arranged vertically, instead of horizontally or lengthwise, as shown in Figure 1.

Figure 3 is a sectional view taken on the line 3—3 of Figure 1, and

Figure 4 is a sectional view taken on the line 4—4 of Figure 1.

Referring to the drawings in detail, in which like reference characters designate corresponding parts throughout the several views, the means for printing on photographs or snap-shot pictures with titles, dates or other information identifying the photographs, includes a rectangular opaque sheet 10 of compressed paper, fibre board or like

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opaque material, but may be of plastic, metal or other suitable material which is relatively thin and opaque, and having narrow ends 11 and 12 and longitudinal sides or edges 13 and 14 constituting the top and bottom edges thereof, the ends and side edges forming a rectangle. Running longitudinally of the top edge 13 is a narrow strip or raised marginal portion 15 of similar material forming a shoulder or stop 16 at the inner edge thereof, the strip being even with the edge 13 at its outer edge and in spaced parallel relation thereto at its inner edge, as well as extending to the ends 11 and 12 at the ends thereof. Centrally of the length of the sheet 10, the strip 15 may be marked with a center line 17 which will represent the center of the length or width in dimension of the sides of a sensitized sheet upon which a picture is to be printed from a negative film and centrally of which along one edge under the picture, photograph or snap-shot, the identifying data indicating a season, occasion or date or any combination thereof is to be printed.

Along the opposite edge 14, a similar strip or marginal raised portion 18, like the strip 15 is provided having an inner edge or stop 19 forming a shoulder the same as the shoulder or stop 16, due to the fact that the strips 15 and 18 are glued or otherwise fastened to one face of the sheet 10, although it is to be understood that the edges may be turned or the shoulders in parallel relation, may be otherwise suitably formed as projections thereon. Between the strips 15 and 18, at one end, such as the end 11, suitable keepers, clips or fasteners 20 are anchored to the sheet 10 at the front, to project over the back of the sheet 10 in spaced relation thereto but sufficiently close to form a holding and clamping means for adjusting and compensating smaller rectangular sheets or replaceable and removable marginal raised portions 21 and 22 or others, fitting exactly between the strips or shoulders 15 and 18 or 16 and 19 respectively, at the ends of the smaller sheets 21 and 22. The clips 20 may be ordinary fasteners, or otherwise, which are of U-shaped form as clearly shown in Figure 4 of the drawings and provided with a burr 23 in one side or leg, in order to anchor or fasten the same to the sheet 10 by clinching the same therethrough opposite an opening 24 in the other leg or side of the clip.

Centrally of the length of the sheet 10 longitudinally thereof and in alignment with the strip 18 and edge or shoulder 19 projecting from the back face of the sheet 10, is a longitudinal narrow slot 25 over which the sheet of sensitized paper,

indicated at 26 is adapted to be placed. In order to accommodate the sensitized sheet or printing paper 26 upon which the picture is to be printed from the film, lengthwise and in the direction of the width, crosswise or horizontally or vertically, the compensating or adjustment sheets 21 and 22 are made of different sizes. These sheets are inserted beneath the clips 20 between the edges or shoulders 16 and 19, the length of the sheets 21 and 22 of opaque material being such that they fit exactly between the shoulders or stops 16 and 19 formed by the inner edges of the strips or raised marginal portions 15 and 18 so that the outer edges of the strips or raised portions 21 or 22 are exactly in line with the ends 11, while the inner edges 27 thereof forming stops or shoulders parallel to the ends 11 and 12 and perpendicular to edges 13 and 14 and edges, stops or shoulders 16 and 19 extend over the sheet 10, and strips 21 and 22 being of different transverse dimensions or widths, will project over the sheet 10 different extents or degrees so that the distances between the inner edges 27 thereof and the center line 17, as well as the center of length of the slot or opening 25, will be narrower or wider to exactly accommodate the standard size sensitive sheet 26 so that its center will exactly align with the center line 17 and the center of length of the slot or opening 25 when placed horizontally or lengthwise as shown in Figure 1 of the drawings, or vertically as shown in Figure 2 of the drawings. Thus, the different widths of the strips or sheets 21 and 22 will accommodate the same size picture sheet 26. By varying the sizes or widths of the sheets 21 and 22, the device is made to accommodate different size snap-shots or photographs, that is the negative films and sensitized paper printing sheets 26 to be used in printing the titles thereon and on which the pictures are to be printed from the film, as well as the printed matter constituting titles or other identifying data in reference to the picture, such as the particular occasion or date thereof, or any combination of such data. For this purpose, the sensitized paper sheet of the same size as the film, as indicated at 26, is placed so that its two corner edges or sides are against the shoulder 19 and the edge or shoulder 27 of the strip 21, when the picture is arranged lengthwise or horizontally and is so taken on the film by means of the camera. With the sheet 21 in position with its ends abutting the shoulders or edges 16 and 19, the sheet will be exactly centered with respect to the center line 17 and the opening or slot 25, so that the latter will be located below the picture appearing on the sheet 26 when printed and naturally, of the same location as the picture on the film.

In order to produce or print a title on the picture sheet, which will be subsequently the photograph or snap-shot, a film sheet or strip 28 is employed bearing thereon in parallel rows, any number of suitable identifying data or information as indicated at 29, and appearing as transparencies. While the data may be of any suitable character, it identifies different information which identifies the particular picture to be printed on the sheet 26 of sensitized or chemically treated paper and may have reference to various events, without or in combination with the dates thereof, and shown placed in position between the sheet 10 and the strip 18 at a guideway or slot 30 formed therein, where the strip 18 is left loose or unsecured to the sheet 10 for a length equal to the width of the strip or sheet 28. Thus, a slot or guideway is provided for the film sheet or strip 28 to exactly accommodate the width thereof and to permit it to be slid into position so that any one of the titles may be centrally positioned beneath the slot or opening 25 and represented in the drawings in a reverse position with the identifying information "Summer 1945." The film strip 28 is placed between the back face of the sheet 10 and the front face of sensitized face of the chemically treated paper sheet 26 on which the picture is to be printed, so that the remaining portion of the picture sheet of sensitized paper 26 is protected by the sheet 10 from exposure to light, so that by exposing the portion of the sensitized paper 26 through the slot 25 and film strip 28 of opaque form, except the transparent characters 29, the subject matter appearing thereon, such as stated, will be exposed through the transparent data to the sensitized sheet, to print or produce thereon, the title or other identifying information, including the event and date, which will thereby be printed on the sensitized face of the sheet 26. In Figure 1, the printing of such data to identify the picture, will be beneath the picture lengthwise thereof, that is in the direction of its long dimension. However, by substituting a slightly wider sheet 22 for the sheet 21 of the same opaque material as the sheet 10, beneath the clips 20 as shown in Figure 2 of the drawings, the sensitized sheet 26 of the same size as that employed in Figure 1 of the drawings will be exactly accommodated between the inner edge 27 of the sheet 22 and the edge 19 at one corner, to centrally position the sheet 26 with the long dimension vertically instead of lengthwise horizontally, with the center or gauge line 17 extending centrally and vertically of the sheet 26 and the slot or opening 25 also centrally beneath the picture to be printed on the sheet 26 and below the same at its narrow bottom edge. By exposure, and later development of the sheet 26 from the film, the title or identifying information will appear directly beneath the picture and centrally of the width of the photographic sheet. By varying the sizes of the sheets 21 and 22, which in Figures 1 and 2 of the drawings are shown to accommodate a size 120 film or picture horizontally and vertically respectively, various size photographs and films may be accommodated by the device, simply by replacing the sheets in lieu of the sheets 21 and 22, which varies the distance between the inner edges thereof and the center line or gauge 17 as well as the center of length of the slot or opening 25, so as to always have the sensitized sheet 26 centrally arranged with respect to said gauge line and slot when placed lengthwise horizontally or vertically, according to the position of the picture thereon.

While in the foregoing there has been shown and described the preferred embodiment of this invention it is to be understood that minor changes in the details of construction, arrangement and combination of parts may be resorted to without departing from the spirit and scope of the invention as claimed.

What I claim is:

1. A device for printing on sensitized sheets, consisting of an opaque sheet with a central longitudinal slot, a first stop on one edge of said sheet, a center line on said stop, a second stop on the opposite edge of said sheet and parallel to the first stop, a longitudinal slit centrally positioned in said second stop to serve as a guide for an opaque strip, and a compensating sheet

of predetermined size removably disposed between said stops to position a sensitized sheet so that its center is exactly aligned with the center line on said first stop.

2. The combination of claim 1, wherein said stops extend the length of said opaque sheet and abut and guide the movement of said compensating sheet.

3. The combination of claim 2, wherein said compensating sheet is removably held in fixed position on said opaque sheet by means of clips.

4. The combination of claim 1, wherein said longitudinal slit on said stop and said longitudinal slot on said opaque sheet are axially aligned for movement of an opaque strip through said slit and over said slot.

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