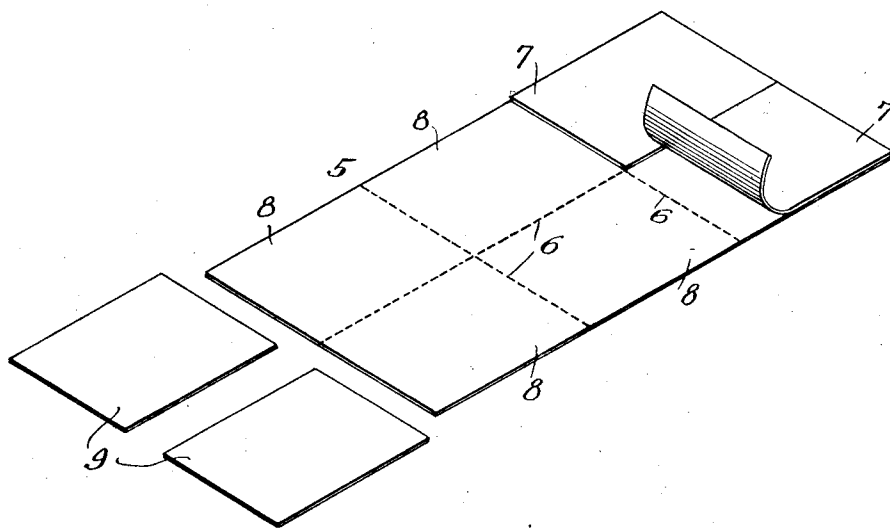


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W. L. SULLIVAN
METHOD OF MAKING PRINTS

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METHOD OF MAKING PRINTS

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Application May 13, 1932, Serial No. 611,063

1 Claim. (Cl. 95—73)

The present invention has for one of its objects the provision of a new and improved method of making prints on sensitized film having visibly indicated portions of a predetermined size and shape corresponding to the size and shape of the objects to be reproduced, whereby to effect economy in the cost of material required and in the time consumed in the production of the prints.

Another object of the invention is to provide an improved method of making prints on sensitized film which facilitates the location of the objects to be reproduced in proper position on the film and which also facilitates separation of the portions of the film forming the different prints after exposure and development, without the use of cutting or trimming instrumentalities.

Another object of the invention is to provide an improved method of contact printing on sensitized film having portions thereof of predetermined size corresponding in size to the objects to be reproduced and indicated by visible scoring, serving as means for locating the objects in proper position on said portions, and also as means to facilitate separating said film portions one from another after exposing the film.

To these and other ends the invention resides in certain improvements and combination of method steps, all as will be hereinafter more fully described and claimed.

In the drawing:

The drawing is a diagrammatic illustration of the sensitized film shown with markings for outlining the portions for receiving the individual objects to be reproduced, two of which portions are shown detached.

With the usual method of printing from tracings, negatives, and other originals or sheets having subject matter to be copied, such sheets are placed on the sensitized film or paper in a more or less unguided and inaccurate manner, often with considerable space allowed between sheets for subsequent trimming of the film to certain predetermined sizes. This method not only wastes a substantial amount of film material, but also involves the time and labor necessary to trim the prints after completion of the exposing and developing operations.

With the present improved method the film or sensitized paper, as indicated above, is provided with markings or outlines which divide it into areas or portions of a predetermined size and shape corresponding to the objects to be reproduced. Such outlines are visibly indicated on the film by a method which may be termed

"scoring", by which is meant the provision of visible markings produced in a manner to facilitate separation of said portions one from another as by tearing along the lines of the scoring. The term "scoring" is therefore used in its broadest sense to indicate any method of producing visible indications on the film which serve to outline the portions to be separated and also facilitate the tearing of said portions apart, as distinguished from previous methods in which it has been necessary to employ cutting or trimming instruments for this purpose.

One method of providing the desired lines of scoring is by perforating the material of the film to produce the required outlines, thus both outlining and weakening the film to afford portions of different predetermined size and shape. However, any other suitable method may be employed for this purpose, as by indenting, cutting or otherwise scoring or weakening the film for the purpose stated.

The sensitized film shown and described herein is preferably of the slow printing type or kind which can be handled without danger of exposure to ordinary daylight for a definite period sufficient to cover the preliminary operations of handling the film and placing the objects thereon preparatory to exposure. The film may be made up in the form of a roll or produced and retained as flat sheets of any desired dimensions.

At any suitable stage in the manufacture of the sensitized sheet or film, indicated generally at 5 in the drawing, the markings or visibly indicated outlines shown by the dotted lines 6 may be produced by any preferred or suitable method, as for example, by perforating, scoring, notching or otherwise producing the same either before or after applying the light sensitive coating to the sheet. These markings as stated above, serve in part to outline the portions of the sheet corresponding in size and shape to the sizes of the objects to be reproduced, two of which are in the form of sheets 7 shown applied to the film. The objects preferably comprise transparent or semi-transparent sheets containing the images or characters to be reproduced.

When exposing the film, the light passing through the sheets affects the sensitized material in the usual way, thus producing on the film the lines or characters of the sheets, which are brought out by subsequent developments of the film. The markings indicated by the reference character 6, in addition to facilitating the proper placing of the sheets 7 upon the film in registry with the individual portions 8 thereof, as shown

at the right hand end of the drawing, also serves to facilitate tearing said portions apart, two of which are indicated at 9.

In carrying out the present method, the originals, or objects 7 to be copied, are placed upon the film in registry with the indicated portions 8 thereof, after which the objects and film are exposed to light in the known manner. The objects are then removed from the film which is then developed.

The process of developing, and the particular kind of film used may correspond, for example, to the film and developing process described in United States Patent No. 1,821,281, issued September 1, 1931, to Karel van der Grinten et al.

It will be understood, however, that the improved process described and claimed herein is not dependent upon the character of the sensitized film employed.

The new and improved film product of the type shown can be made up in different sizes with various sizes for the outlined portions 8, depending on the dimensions and sizes of the

originals to be reproduced. The latter may be standardized to a certain degree, but the dimensions of the film and the outlined portions thereof will, of course, depend on the character of the work to be copied.

I claim:

The method of making contact prints which comprises providing flexible sheet material, visibly scoring said sheet material along predetermined lines to subdivide it into predetermined areas of sizes substantially equal to the sizes of objects to be reproduced, applying a light sensitive coating to said sheet material, applying objects to be reproduced to said predetermined areas so that each object substantially coincides with one of the predetermined areas, exposing the sensitized sheet material and objects to light, and separating said predetermined areas of the exposed sheet material from each other along said lines of scoring.

WARREN L. SULLIVAN.

25	100
30	105
35	110
40	115
45	120
50	125
55	130
60	135
65	140
70	145
75	150