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PROCESS FOR PRODUCING PLATES, FILMS, OR PELLICLES DETACHABLY SECURED TO A PAPER BACKING OR THE LIKE.

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1,105,243. **Patented July 28, 1914.**

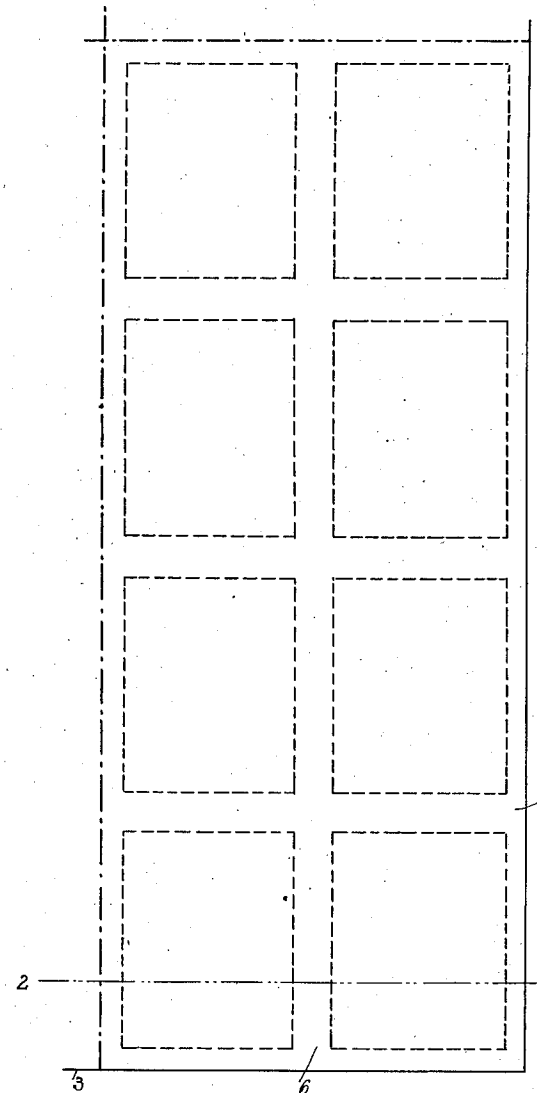

Fig. 1.

Fig. 2.

WITNESSES

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JULES BLONDEL AND ALEXIS CHOPIN, OF PARIS, FRANCE.

PROCESS FOR PRODUCING PLATES, FILMS, OR PELLICLES DETACHABLY SECURED TO A PAPER BACKING OR THE LIKE.

1,105,243. Specification of Letters Patent. Patented July 28, 1914.

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To all whom it may concern:

Be it known that we, JULES BLONDEL and ALEXIS CHOPIN, citizens of the Republic of France, and resident in Paris, France, have invented new and useful Improvements in Processes for Producing Plates, Films, or Pellicles Detachably Secured to a Paper Backing or the like, of which the following is a specification.

This invention relates to a process for the manufacture of photographic plates, kinematograph films, both positives and negatives, coated papers, and so forth by a method simple, easy and inexpensive and which possesses the various advantages of the ordinary plates and films.

Attempts have already been made to form into films, substances such as gelatin for instance, by depositing it upon a support previously coated with an insulating material, but these attempts have given no practical result hitherto by reason of the serious drawbacks which are experienced during the photographic treatment.

In conformity with the present invention the material which forms the plate or film, such as gelatin or other suitable substance, preferably of non-inflammable material, is spread upon a support to which it adheres at its edges, but in such a manner that it can be easily separated from the said support after having undergone the usual photographic treatment. For this purpose, use is made of a non-adhesive or separating substance placed between the support and the material forming the plate, film or coated paper; and there are contrived upon the support between the said plates or films, intermediate spaces upon which the material forming them will adhere when once placed upon the support, so as to keep in position during the photographic operations while the plates or films themselves do not positively adhere to the support.

With these and other objects in view we have illustrated in the accompanying drawing by way of example a product of the process.

Figure 1 shows a top plan view of a fragment of the strip of paper coated at various portions with a non-adhesive material and covered by another strip. Fig. 2 is a section on line 2—2 of Fig. 1.

According to one form of this process, the support 3 of paper in sheets or endless bands is first coated with the non-adhesive or separating material 4, for instance with a solution of wax at the parts destined to receive subsequently the material forming the plate or film 5 or the paper coating. Between each of the parts arranged to receive the said plates or films, there are arranged intermediate spaces 6, not waxed, leaving the paper uncovered, upon which in consequence the coating or film will adhere. After this, there is applied a coating of suitable thickness by any suitable means, mechanical or other as for instance by immersion or by means of a filming method, the whole surface of the above described support being covered with a layer of the material 5—preferably uninflammable—of the plate or film such as gelatin. Then the gelatin is emulsioned and the plates, coatings or films are detached along the middle of the parts 6 which are not waxed; the operator then proceeds with the ordinary photographic operations and all the parts of the film resting upon the non-adhesive material placed between the gelatin and its support are then detached after the adhesive edges have been cut off.

It is obvious that instead of using a single support for a certain number of plates or films, one might also, without exceeding the scope of this invention, make use of separate supports of the shape and dimensions of the plates or films, that is to say, representing in the form previously described, the parts waxed and connecting all these parts together with the supports representing the parts which are not waxed.

Having now described our said invention, we declare that what we claim is:

A method of making plates or films, which consists of coating a support at certain portions with a substance which is non-adhesive with respect to the film material, leaving interspaces between said portions and applying the film material over said non-adhesive material and interspaces.

In testimony whereof we affix our signatures in presence of two witnesses.

JULES BLONDEL.
ALEXIS CHOPIN.

Witnesses:
LUCIEN MEMMINGER,
EDWARD WOLF.