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S. KAMINSKI

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HOLDER FOR PHOTOGRAPHIC IMAGE CARRIERS

Filed April 19, 1929

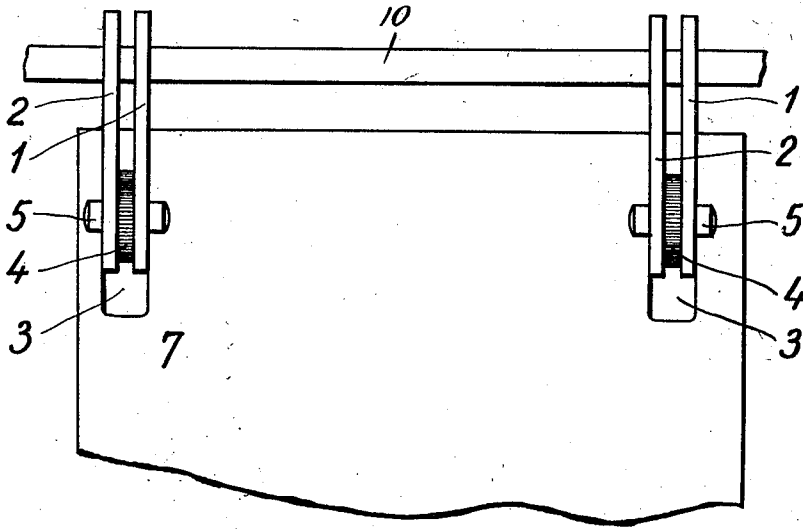


Fig. 1

Fig. 3.

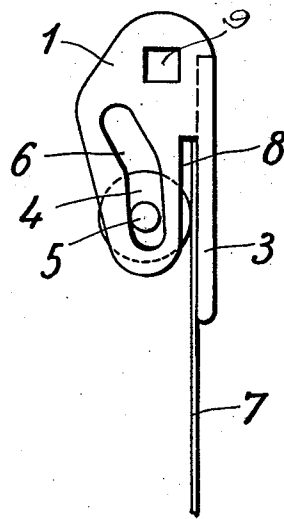
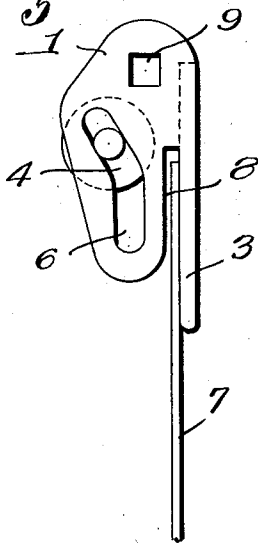


Fig. 2

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UNITED STATES PATENT OFFICE

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HOLDER FOR PHOTOGRAPHIC IMAGE CARRIERS

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The present invention relates to a clamping device for suspended articles, such as photographic films or papers, which device consists of a pressure roller which, by means of an oblique slot guiding the axles of the roller, clamp the image carrier against a rear member or bearing piece.

One feature of my invention is a holder for photographic films or papers comprising clamping devices which consist of a rear member serving as a support for the image carrier, and a movable pressure roller. The roller is movably mounted between two side walls and its axle is shiftably carried in slotways oblique to the rear member and cut in the side walls which, at the upper end, are fixed to the rear member and form with the latter a downwards open slot. An image carrier may be introduced into this slot and is automatically clamped by the pressure roller being pressed with its own weight against the rear member.

I found it to be particularly advantageous to give to the guiding slots in the side walls an obtuse-angled or curved shape, the lower part of these slots being slightly inclined to the rear member, whereas the upper part is inclined at a slightly larger angle to the latter.

I further found it to be advantageous that the axle of the pressure roller projects laterally beyond the side walls so as to serve as handles for the roller. If the clamped film or paper is to be taken out of the holder the pressure rollers are raised on their projecting axles; in consequence of its arrangement in the oblique slots the roller is forcibly removed from contact with the clamped article, and the latter is then free.

One form of construction of the invention is illustrated by means of example in the accompanying drawings, in which:

Fig. 1 is a plan view,

Fig. 2 is a side view of the holder, and

Fig. 3 is a similar view to that of Fig. 2, but in this case the pressure roller is in the position of release of the device.

The holder comprises two side members 1 and 2 connected on their upper end with a rear member 3 serving as an abutment for

the clamped article. The side members 1 and 2 are shaped to form, with the rear member 3, a slot 8, having plane, approximately parallel boundary surfaces, for receiving a film strip or a sheet of photographic paper 7. In the side walls 1 and 2 obtuse-angled slots 6 are cut to provide bearings for the axle 5 of a pressure roller 4, so that the latter is easily displaceable and is in contact with the rear member 3 when at rest. If a photographic image carrier be inserted in the slot 8 with its gelatin layer averted from the rear member 3, the rollers 4 are forced upwardly and allow the entrance of the thin sheet 7. In consequence of their own weight, however, they automatically fall down, and, guided by the oblique slot 6, they firmly clamp the sheet resting against the rear member 3.

The lower part of the slot 6 is slightly inclined to the bearing member 3 so that automatic braking of the rollers 4 is obtained (as seen in Fig. 2). To obtain increased friction between the image carrier and roller the pressure rollers may be fluted.

In the upper portion of the side members 1 and 2 openings 9 may be provided through which a rod 10 of a corresponding diameter may be passed in order to hold the clamping devices freely suspended.

I claim:

1. A clamping device for holding wet photographic films or papers automatically in a suspended position comprising a pair of side members, a back member connected to said members at their upper portions and spaced from their lower portions thus forming a slit with plane, approximately parallel boundary surfaces for introducing the wet material, said side members being provided with slots extending angularly with respect to said back member, and a roller between said side members and having an axle supported in said slots.

2. The invention as set forth in claim 1 wherein one portion of each of said slots is inclined at a greater angle to said back member than another portion.

3. The invention as set forth in claim 1 wherein the outer line of that portion of the slot which is nearest said back member is

spaced therefrom a distance substantially equal to the radius of the roller mounted in said slot.

4. The invention as set forth in claim 1 wherein said axle extends beyond said side members and serves as a means for moving said roller.

In testimony whereof, I affix my signature.
STEFAN KAMINSKI.

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