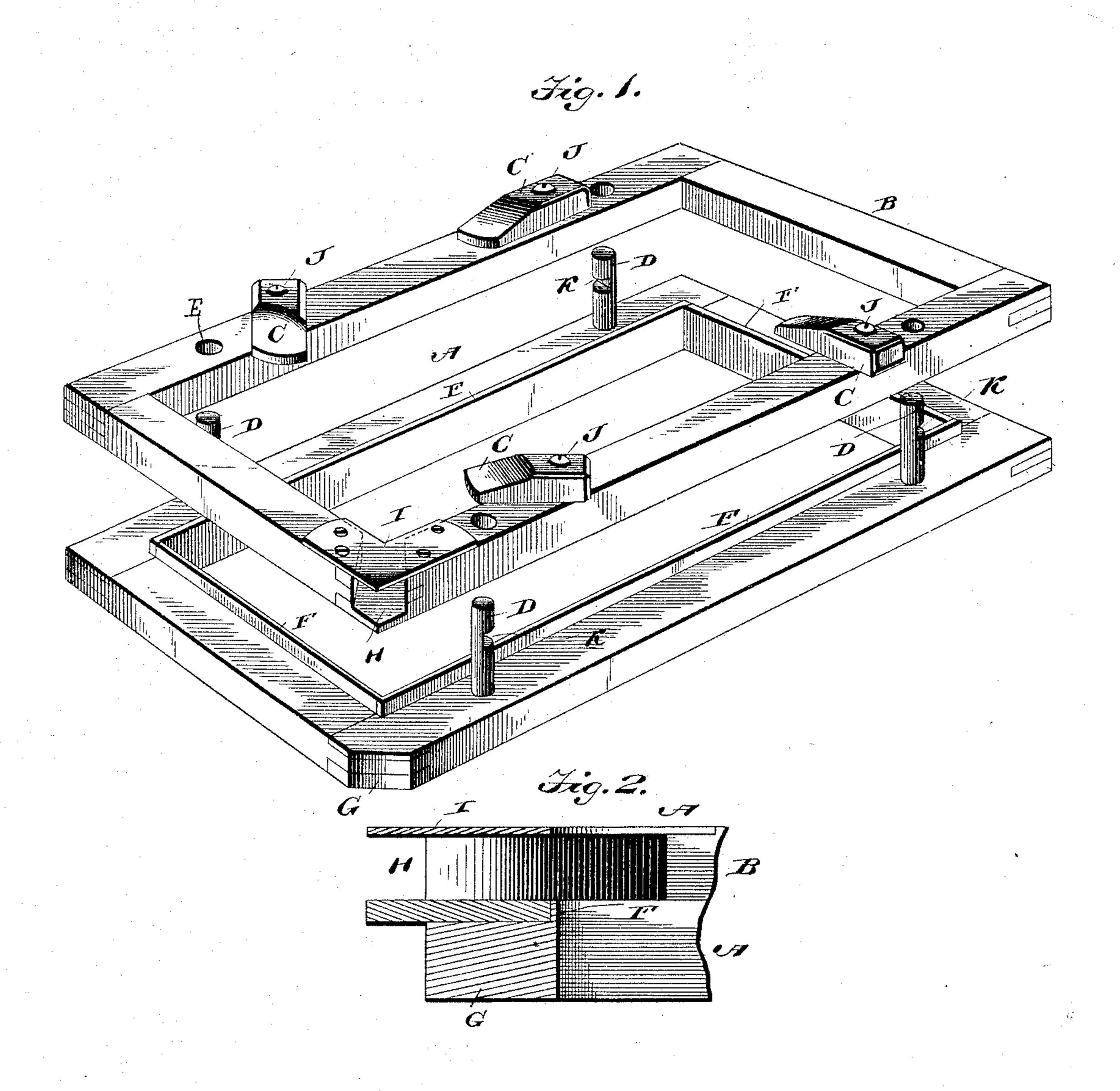
(No Model.)

E. A. GILBERT.

FRAME FOR COATING ARISTOTYPE PAPER.

No. 428,089.

Patented May 20, 1890.



Marles A Gerry

Inventor E. A. Gilbert.

By Kis Attorney Chas EN Barber

United States Patent Office.

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FRAME FOR COATING ARISTOTYPE-PAPER.

SPECIFICATION forming part of Letters Patent No. 428,089, dated May 20, 1890.

Application filed November 27, 1889. Serial No. 331,835. (No model.)

To all whom it may concern:

Be it known that I, EMERSON A. GILBERT, a citizen of the United States, residing at Jamestown, in the county of Chautauqua and 5 State of New York, have invented a new and useful Frame for Coating Aristotype-Paper, of which the following is a specification.

My invention relates to improvements in frames for coating aristotype-paper or other ro photographic paper with emulsion for the purpose of printing photographs by means of photograph-negatives; and the objects of my improvements are, first, to provide a perfectlysmooth surface of paper when ready to be 15 coated with emulsion, and to avoid all wrinkles or other uneven surfaces in the paper after the emulsion is applied and the paper dry and ready for use; second, to provide a means to remove all emulsion not taken up by the pa-20 per in coating and to provide for an even coating of the paper with emulsion, and, third, to provide a means to hold the paper at a high tension while the emulsion is being applied and while the paper is being dried. I attain 25 these objects by the mechanism illustrated in the accompanying drawings, in which-

Figure 1 is a perspective view of my improved frame, showing the parts separated; and Fig. 2 is a detailed view in cross-section

30 of the corner which is cut away.

A is the bed or bottom frame, and may be of any size or material desired. Upon the inner edge and entirely surrounding it is a rim or raised surface F. This rim or raised 35 surface is about one-eighth of an inch in height. The bottom frame has one corner cut away, as shown at G. This cut-away portion or corner allows the emulsion to flow directly off from the paper without touching 40 the frame, which would cause it to follow back between the two frames and smear their edges and also smear the wrong side of the paper. Upon two or more sides of said frame are set guides or dowel-pins, as shown by D. 45 These guides or pins have slots cut in them, as shown at K, the lower edge of said slot being an equal distance from the upper surface of said frame A with the thickness of the upper or top frame, hereinafter referred to. 50 As many of such guides or pins may be used as may be necessary, according to the size of the frame.

B is the upper or top frame, and is made to fit tightly around the rim F, heretofore referred to, and having an outside measure- 55 ment equal to that of frame A—the bed or bottom frame. Through one corner of frame B a slot or channel is cut, as shown at H, leaving the portion of the frame remaining of a thickness equal to the height of the rim 60 F, heretofore referred to, or about one-eighth of an inch in thickness. The corner of the frame so cut away is strengthened by means of a metallic brace I, secured by the screws J to the upper or top frame. Through the up- 65 per frame are holes E to correspond with the notched or slitted guides or pins D in frame A. Upon the upper or top frame are beveled buttons C, secured thereto by means of the

screws J, as shown in the drawings.

To operate the said frame the upper or top frame is removed and the paper to be coated placed upon the bed or bottom frame and resting all around upon and extending a slight distance over the rim F. The upper or top 75 frame B is then placed in position, the guides or pins D in the bed or bottom frame extending through the corresponding holes E in the upper or top frame, and the corner of the upper frame where cut away by the slot or chan-80 nel H over the corner in the bed or bottom frame cut away, as shown at G. The top or upper frame is then pressed firmly down upon the paper, when the paper will be secured firmly and will present a smooth and even 85 surface. The buttons C are then turned into the slots K in the guides or pins, and the frames are then firmly secured together and the paper ready for coating. The emulsion is then turned or poured upon the paper and 90 allowed to flow over the paper. When sufficiently coated, the emulsion not taken up by the paper in coating is allowed to flow or run off through the slot or channel H in the top or upper frame into a receptacle. When suf- 95 ficiently dry, the buttons are turned and the paper removed.

Lam aware that frames have been made prior to my invention for the purpose of coating aristotype or other photographic paper 100 with emulsion. I therefore do not claim such

a combination broadly; but

What I do claim as my invention is— 1. A lower frame provided with an inner

vertically-projecting rim, in combination with an upper frame adapted to fit around the rim on the lower frame and having an opening at the corner, leaving an uninterrupted opening 5 in the plane of the top of the rim on the lower frame, and means for securing the frames together, substantially as and for the purposes specified.

2. The lower frame having an inner verti-10 cally-projecting rim and provided with recessed vertical pins and a cut portion, as G, in combination with an upper frame cut away at the corner, forming an opening which permits the escape of emulsion without the neces-

15 sity of tipping the frame entirely over, and also provided with vertical perforations for the recessed pins, and buttons for engagement

with the pins on the lower frame, substantially as described.

3. The lower frame having a vertical rim 20 and having one corner cut off, as G, and also provided with vertical slotted pins, in combination with an upper frame having one corner cut away below the plane of the top of the rim on the lower frame and provided with 25 a brace above the opening in the corner, and also provided with vertical openings for the slotted pins, and beveled buttons for engagement with the slots in the pins, substantially as and for the purposes specified.

EMERSON A. GILBERT.

Witnesses:

B. A. Barlow,

O. O. DEAN.