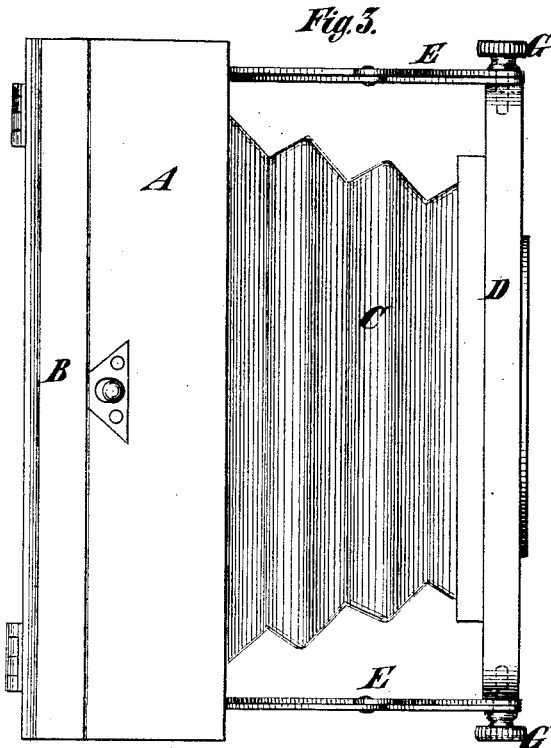
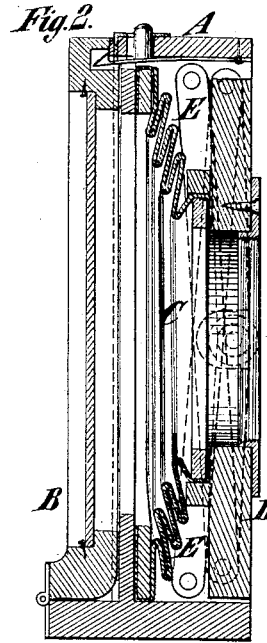
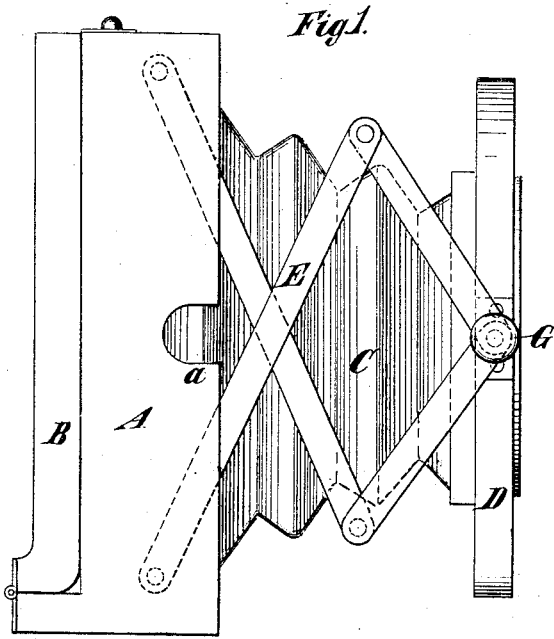


(No Model.)

M. FLAMMANG.
PHOTOGRAPHIC CAMERA.

No. 260,557.

Patented July 4, 1882.



Witnesses
J. H. Kane
James R. Bowen.

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UNITED STATES PATENT OFFICE.

MATHIAS FLAMMANG, OF NEWARK, NEW JERSEY.

PHOTOGRAPHIC CAMERA.

SPECIFICATION forming part of Letters Patent No. 260,557, dated July 4, 1882.

Application filed December 28, 1881. (No model.)

To all whom it may concern:

Be it known that I, MATHIAS FLAMMANG, of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Photographic Cameras, of which the following is a specification.

The object of my present improvements is to produce a serviceable photographic camera which may conveniently be carried in the pocket of a photographer or otherwise transported.

To this end my improvements consist in the combination, with a shallow main frame, of an extensible body and a front connected with said frame and supported by or from the same, both said body and front being adapted to be contracted and received within the frame when not in use.

They also consist in the combination, with a main frame, of an extensible body, a front fastened thereto, and lazy-tong levers for retaining the front in position, both said body and front being adapted to be contracted and received within the main frame when not in use.

They also consist in the combination, in a photographic camera, with a main frame, of an extensible body, a front fastened thereto, and two sets of lazy-tong or crossed levers, one pair of each set being connected with said main frame at distant points, and another pair of each set being together connected to the front at the same point, whereby provision is afforded for oscillating said front and maintaining it at different angles.

They also consist in the combination, with a main frame, of an extensible body, a front fastened thereto, lazy-tong levers connecting the front with the said frame, and clamping-screws for securing the front and lazy-tong levers together, so as to admit of the front being swung up or down and retained in position.

They also consist in the combination, with a main frame, an extensible body, and a front attached to the latter, of two sets of lazy-tong or crossed levers secured to the interior of the sides of the frame and to the exterior of the sides of the front, whereby provision is afforded for contracting the body and front within the frame, as hereinafter described.

In the accompanying drawings, Figure 1 is a side view of a photographic camera embody-

ing my improvements with the body and front extended. Fig. 2 is a longitudinal section of the same with the body and front contracted; and Fig. 3 is a top view of the same with the body and front extended.

Similar letters of reference designate corresponding parts in all the figures.

A designates a shallow frame, which is preferably provided at the base with means whereby it may be attached to any suitable support. These means may consist of a countersunk screw-socket arranged midway between the sides of the frame. At the rear this frame is provided with the usual ground-glass frame B, which, as here shown, is hinged in place at the bottom and fastened at the top by a spring-catch.

C designates an extensible body, which may be of the well-known bellows-like construction, or may be of the form of a tapering bag.

D designates the front of the camera. It is fastened to the forward end of the body C, and provided with a screw-socket whereby the lens-tube may be secured to it.

E designates two sets of lazy-tong or crossed levers, which connect the front, D, with the frame A. One set is arranged on each side of the extensible body C. The lazy-tong levers of each set are preferably pivoted together in such close contact that they exert considerable friction on each other. One pair of each set are pivoted at distant points to the interior surfaces of the sides of the frame A, or to metal plates arranged thereon, and another pair of each set are together pivoted to the exterior surfaces of the side edges of the front D, or to metal plates affixed thereto at the same point. The levers are here shown as secured to the front by hand-screws G, which may be conveniently turned to clamp the levers in any desired relation with the front.

It is obvious that the body and front may be extended, and that the front may be oscillated or canted at any desired angle and secured there by these screws. The front may also be swung up and down at various angles or in a vertical plane, and may be retained there by the hand-screws.

If it is desired to cant the front laterally at a desired angle, this may be accomplished by

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extending one set of lazy-tong levers farther than the other set and securing the two sets in their positions by the hand-screws. When the body and front are contracted within the frame the hand-screws are accommodated in recesses *a* in the sides of the frame.

It will be seen that by my improvements I produce a photographic camera which may be compactly packed or contracted, so that it can conveniently be carried in the pocket or otherwise transported.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a photographic camera, the combination, with a shallow main frame, of an extensible body and a front connected with said main frame and supported by or from the same, both said body and front being adapted to be contracted and received within the frame when not in use, substantially as specified.

2. In a photographic camera, the combination, with a main frame, of an extensible body, a front fastened thereto, and lazy-tong levers for retaining the front in position, both said body and front being adapted to be contracted and received within said frame when not in use, substantially as specified.

3. In a photographic camera, the combination, with a main frame, of an extensible body,

a front fastened thereto, and two sets of lazy-tong or crossed levers, one pair of each set being connected with said main frame at distant points and another pair of each set being together connected to the front at the same point, whereby provision is afforded for oscillating said front and maintaining it at different angles, substantially as specified.

4. In a photographic camera, the combination, with a main frame, of an extensible body, a front fastened thereto, lazy-tong levers connecting the front with the said frame, and clamping-screws for securing the front and lazy-tong levers together, so as to admit of the front being swung up or down and retained in position, substantially as specified.

5. In a photographic camera, the combination, with a main frame, an extensible body, and a front attached to the latter, of two sets of lazy-tong levers secured to the interior of the sides of the frame and to the exterior of the sides of the front, whereby provision is afforded for contracting the body and front within the frame, substantially as specified.

M. FLAMMANG.

Witnesses:

T. J. KEANE,
JAMES R. BOWEN.