

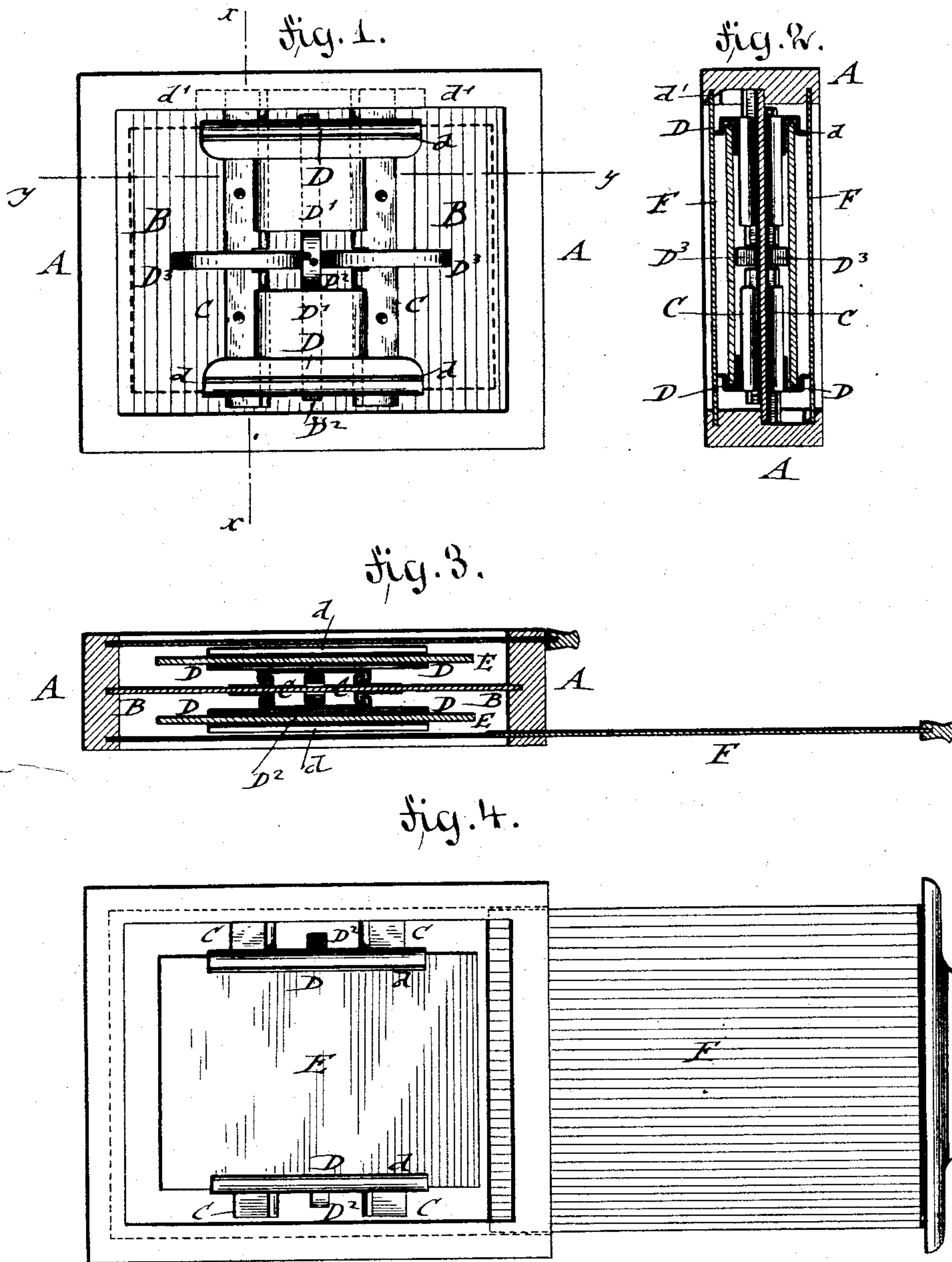
(No Model.)

L. KOSS.

PLATE HOLDER FOR CAMERAS.

No. 342,914.

Patented June 1, 1886.



Witnesses:

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UNITED STATES PATENT OFFICE.

LUDWIG KOSS, OF NEW YORK, N. Y.

PLATE-HOLDER FOR CAMERAS.

SPECIFICATION forming part of Letters Patent No. 342,914, dated June 1, 1886.

Application filed December 16, 1885. Serial No. 185,817. (No model.)

To all whom it may concern:

Be it known that I, LUDWIG KOSS, of the city, county, and State of New York, have invented certain new and useful Improvements in Plate-Holders for Cameras, of which the following is a specification.

This invention has reference to an improved plate-holder for photographic cameras, which is arranged to support plates of different size and center them in a convenient manner, and the invention consists of a plate-holder provided with transverse guide-rails and flanged plate-holding clamps guided thereon, said clamps being acted upon by friction-springs, while springs at right angles press directly on the plate. The plate-holder is provided at the upper part with a recess for one of the plate-holding clamps, so that the same can be moved out of the way.

In the accompanying drawings, Figure 1 represents a front elevation of a double plate-holder for cameras. Fig. 2 is a vertical transverse section on line *xx*, Fig. 1; Fig. 3, a horizontal section on line *yy*, Fig. 1, and Fig. 4 a front view of the plate-holder shown with the cover drawn out and a plate in position therein.

Similar letters of reference indicate corresponding parts.

In the drawings, A represents the frame of my improved plate-holder, which is provided with a fixed septum, B. To the septum B are applied transverse guide-rails C, on which are guided two adjustable plate-holding clamps, D D. The clamps D D are provided with outwardly-bent flanges *d*, by which the clamps may be conveniently taken hold of for being applied to the plate. One of the clamps D may be moved into and stored away in a recess, *d'*, of the frame A, (shown in Fig. 4,) so as to facilitate the insertion of the

ground-glass plate E and the proper centering of the same. The shanks D' of the plate-holding clamps are guided on the rails C and acted upon by the ends of a band-spring, D², so as to be securely held in position on the rails. A second band-spring, D³, is arranged at right angles to the spring D² and pressed upon the plate E, so as to hold the same firmly in position in the clamps D. A sliding cover, F, closes the plate-holder in the usual manner.

My improved plate-holder has the advantage that plates of different sizes can be supported without any kid-frame, and that the same can be centered quickly and conveniently. The plate-holder can also be made cheaper than the plate-holders with wooden kids, which require careful finishing. The plate-holder can be made single or double and can be used with plates of different sizes.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination of a supporting-frame, transverse guide-rails, adjustable plate-holding clamps guided on said rails, and band-springs pressing on the clamps and plate, substantially as set forth.

2. The combination of the supporting-frame having a recess in one edge thereof, transverse guide-rails, adjustable plate-holding clamps guided on said rails and having outwardly-bent ends, and band-springs pressing on the shanks of the clamps and the plate, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

LUDWIG KOSS.

Witnesses:

PAUL GOEPEL,
CARL KARP.