

P. V. W. WELSH.
 TEMPORARY CARRIER AND GRAVITAL FEED FOR PHOTOGRAPHS.
 APPLICATION FILED NOV. 10, 1905.

906,758.

Patented Dec. 15, 1908

Fig. 1.

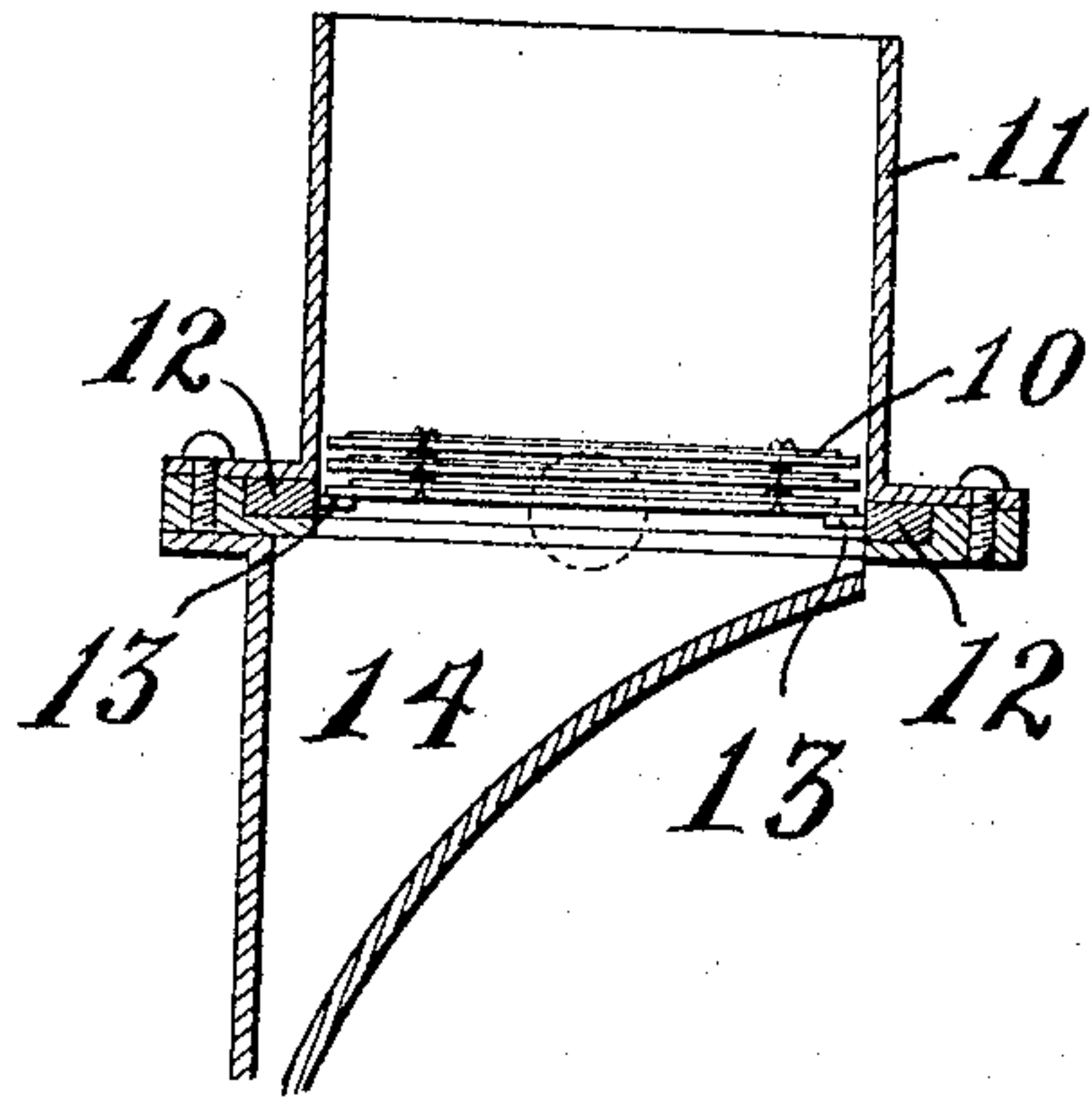


Fig. 2.

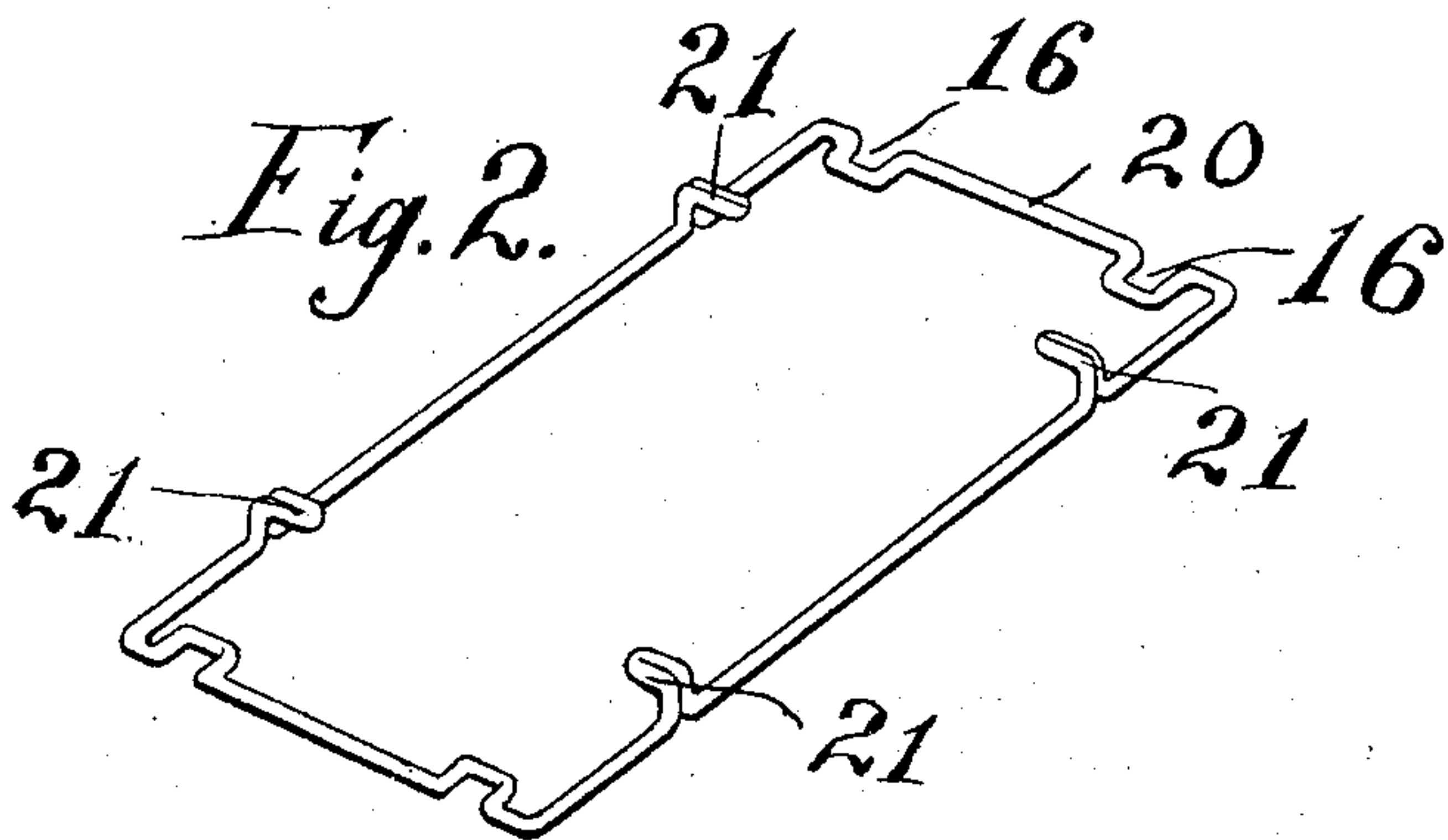
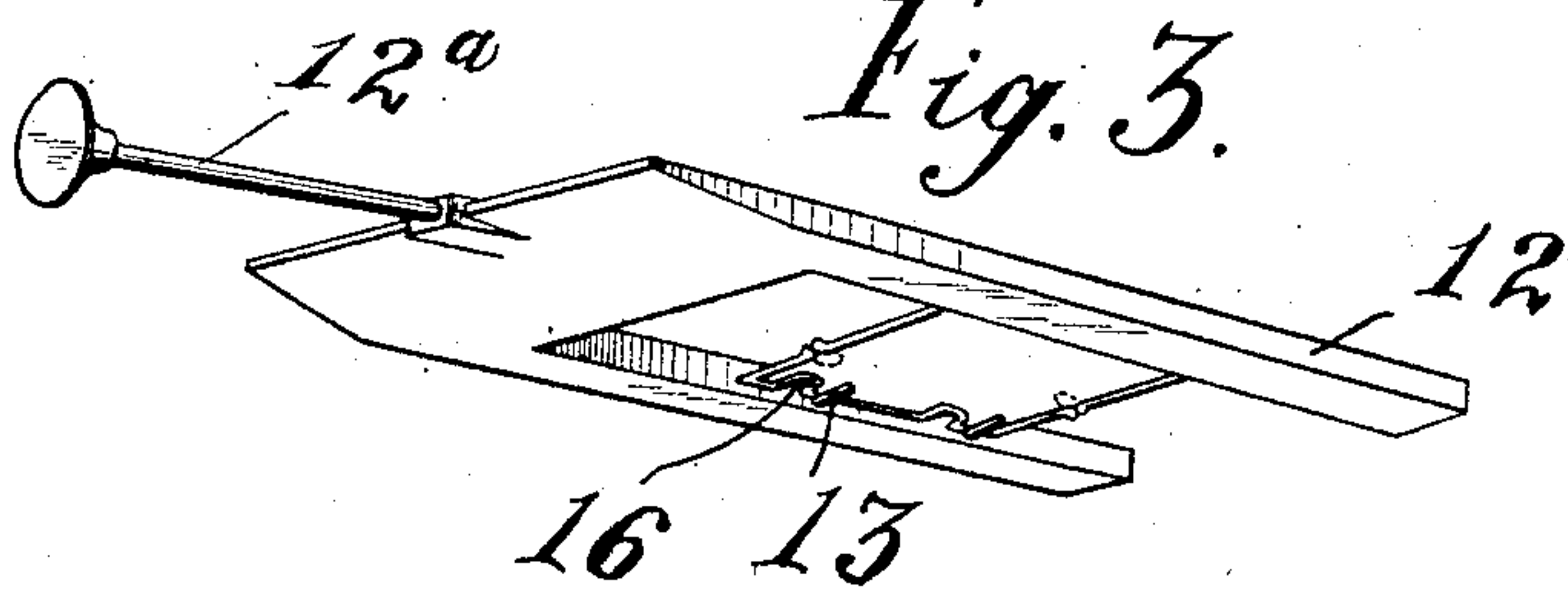


Fig. 3.



Witnesses:
 Frank L. Stubbs.
 Ralph Lancaster.

Pierre V. W. Welsh, Inventor,
 By his Attorney,
 W. B. Hutchinson.

UNITED STATES PATENT OFFICE.

PIERRE V. W. WELSH, OF BROOKLYN, NEW YORK.

TEMPORARY CARRIER AND GRAVITAL FEED FOR PHOTOGRAPHS.

No. 906,758.

Specification of Letters Patent.

Patented Dec. 15, 1908.

Application filed November 10, 1905. Serial No. 286,657.

To all whom it may concern:

Be it known that I, PIERRE V. W. WELSH, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Temporary Carrier and Gravital Feed for Photographs, of which the following is a full, clear, and exact description.

My invention relates to improvements in devices for manipulating photographs, particularly while the photographs are carried through the developing and fixing baths.

The invention is also intended for use in connection with photograph machines and more particularly so-called automatic machines in which the photographs are, by machinery, carried through first a developer and then a fixer.

The usual practice is to have the sensitized paper carefully and permanently secured to a plate so that the two, that is the paper and plate, constitute a so-called photograph plate when they are united, but in practice it is desirable to carry the paper merely through the baths and then after it is developed and fixed secure it to a suitable plate. One reason for this is that this arrangement obviates the necessity of notching or otherwise injuring the permanent plate and again, the general result is better and more economical.

The object of my invention is to produce a cheap and simple temporary carrier to which the paper can be attached and which will have sufficient rigidity to hold the paper taut and which will especially hold the paper so that the plate feed will work on the carrier as well as on the usual rigid plate.

With these ends in view my invention consists of a temporary carrier and gravital feed for photograph papers or photographs as will be hereinafter clearly described and claimed.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar letters and figures of reference indicate corresponding parts in all the figures.

Figure 1 is a vertical section of a gravital plate feed and is intended to show the manner of using the carrier; Fig. 2, is a perspective view of the carrier; Fig. 3 is a detail of the slide forming a part of the feed.

In my prior U. S. Patent No. 490,180, there is shown and described a feed device adapted to gravitally drop photograph plates one by one from a hopper into a chute

conducting the plates into line with a camera lens. The plates in this hopper are supported by side and end projections alternately movable at the opening of a stationary rectangular frame, and the alternate plates are notched at opposite sides and at opposite ends so that the plates dropped singly upon alternate withdrawal of the side and end projections which was effected by a somewhat complicated and expensive quadrangular system of bevel gears and racks and pinions extending around the open frame. In the present invention all this gearing is dispensed with thus reducing the cost of construction and simplifying the operation of dropping the plates or plate carriers.

The improved gravital feed device shown in Figs. 1 and 3 of the drawings, accommodates a pile of plates or plate carriers within a hopper 11, wherein the plates are supported by a slide 12, having an operating handle 12^a, and also having a central opening into which laterally project pins 13 fastened one pair in each side bar of the slide or frame. The piled plates or carriers 10 rest upon these pins 13 and the plates are allowed to fall gravitally one by one through the slide opening into the hopper 14, passing them toward a camera lens, by simply giving the slide a direct lineal movement in one direction or the other to bring its pins 13 into line or register with the notches in the ends of the lowermost plate or carrier.

In Fig. 2, I show the carrier which comprises a bent wire frame 20, which wire is shaped to produce the notches 16, and which also has bent-up clips or sockets 21, into which the paper may be sprung and which will serve to hold it.

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

In a temporary carrier for photographs, a suitable hopper and supporting slide, carriers with which the slide coacts, said carriers consisting of rectangular wire frames having notches in the ends, the sides of the frames containing approximately C-shaped clip sockets into which the print may be sprung.

PIERRE V. W. WELSH.

Witnesses:

WARREN B. HUTCHINSON,
WM. H. CAMFIELD.