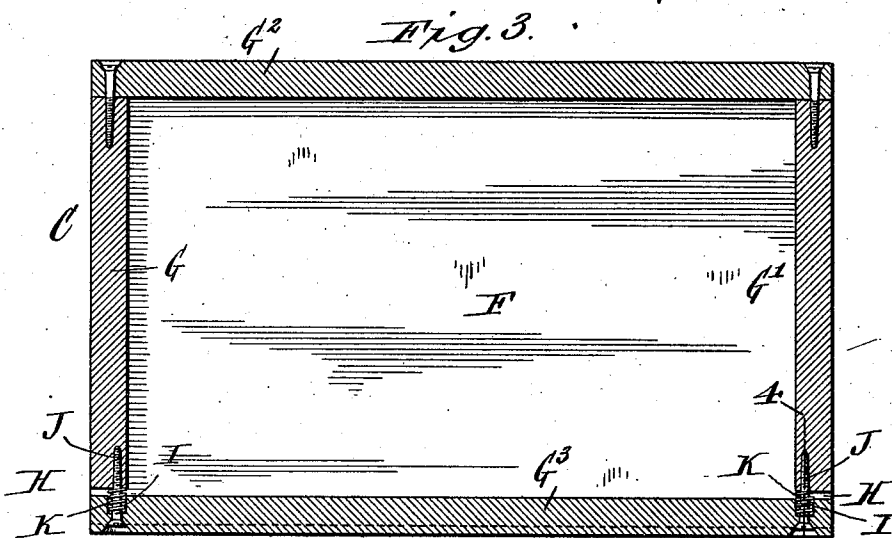
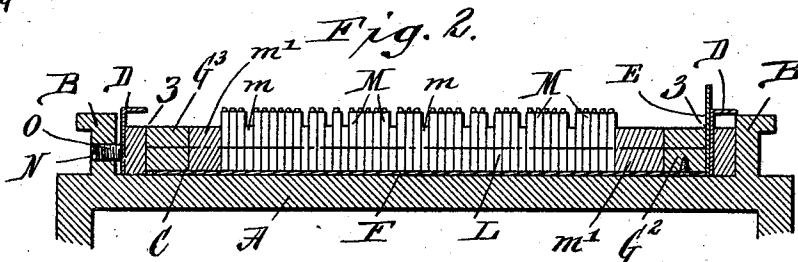
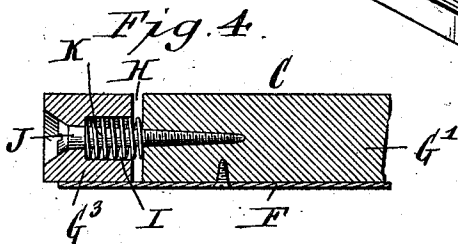
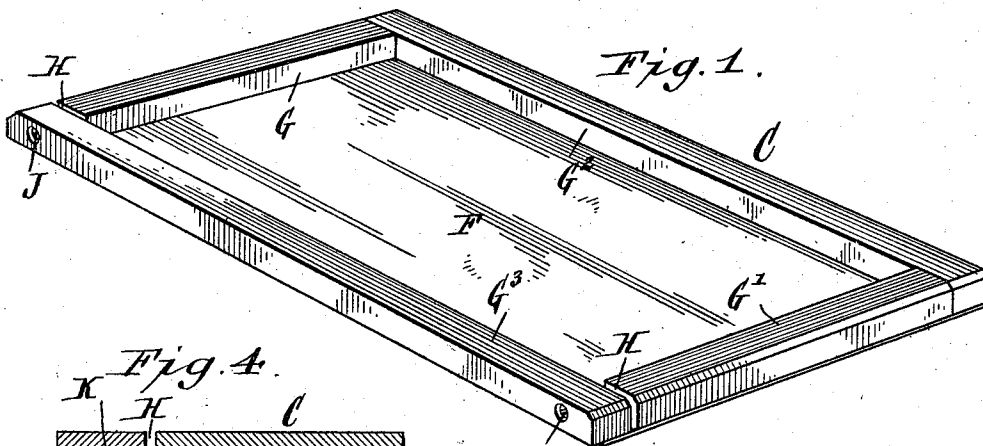


C. E. ADAMSON.
TYPE CHASE.

APPLICATION FILED JULY 16, 1909.

1,000,315.

Patented Aug. 8, 1911.



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UNITED STATES PATENT OFFICE.

CHARLES E. ADAMSON, OF BUFFALO, NEW YORK.

TYPE-CHASE.

1,000,315.

Specification of Letters Patent.

Patented Aug. 8, 1911.

Original application filed July 20, 1907, Serial No. 384,734. Divided and this application filed July 16, 1909. Serial No. 508,046.

To all whom it may concern:

Be it known that I, CHARLES E. ADAMSON, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented new and useful Improvements in Type-Chases, of which the following is a specification.

My invention relates to improvements in type-chases, and it has for its primary object the provision of a contractible chase to be used in printing or duplicating machines so that the quoins usually employed for locking the type within the chase may be dispensed with, at least for locking the type in one direction.

While the particular chase herein shown is contractible in one direction only, the principle involved may be extended so that the chase may be contractible in two directions and thus dispense with the locking quoins entirely.

To this end the invention consists in making at least one of the type-confining rails or walls of the chase movable; and it also consists in the construction, arrangement, and combination of parts to be hereinafter described and particularly pointed out in the subjoined claims.

In the drawings,—Figure 1 is a perspective view of a type-chase constructed according to this invention. Fig. 2 is a transverse section through the chase showing the same applied to a supporting-bed forming part of a printing or duplicating machine and showing between the rails or walls of said type-chase and portions of said supporting-bed, carriage-tracks and a paper-gage. Fig. 3 is a section taken on line 3—3, Fig. 2, the type-form being omitted. Fig. 4 is an enlarged section taken on line 4—4, Fig. 3.

Referring now to the drawings in detail, like letters of reference refer to like parts in the several figures.

As I have shown a chase supported on a portion of a printing or duplicating machine, I will describe the latter so as to more clearly disclose the manner of applying my invention.

The reference letter A designates a bed or support having upstanding flanges B and resting on said bed between said flanges, is the chase C. The particular bed or support herein shown forms a part of a duplicating machine, such as shown in my co-pending application, filed July 20, 1907, Serial No.

384,734, of which this application for patent is a division. In machines of this type, the upstanding flanges B serve as tracks whereby a traveling carriage is guided for movement; and between each of these tracks and the chase a friction-rail D is located, in contact with which the impression-roller of the machine or both the impression-roller and the friction-wheel movable with said roller are adapted to travel. Between one of said friction rails and the chase, a paper-gage E is clamped. The chase comprises a bottom F of thin sheet metal, two end rails G, G¹ secured to said bottom, a side rail G² also secured to said bottom, and a second side rail G³ resting upon said bottom but movable toward and from the side rail G² so that spaces H are formed between said movable rail and the adjacent ends of the end rails. Said movable rail has inwardly-opening sockets I at opposite ends in line with said end rails and it is held against detachment from the remainder of the chase by screws J passed through said movable rail centrally through the sockets thereof and threaded into said end rails. The heads of said screws act to limit the outward movement of said movable rail, and normally, said rail is held in its outermost position by coil springs K surrounding said screws and located within said sockets, one end of each spring bearing against the inner wall of its cooperating socket and the other end thereof bearing against the adjacent end of the aligned end rail. Placed within the chase, is a type-form L which may be formed of assembled type and the usual accessories employed in setting up a form, or an electrotype, cut, or other object from which an impression may be obtained.

In Fig. 2 the type-form is shown as consisting of type M, spacers *m*, and slugs *m*¹ between the ends of the rows of the type and the side rails of the chase. In the particular application of my invention herein shown, one of the flanges B of the bed or support may have a number of threaded openings N in which are threaded binding-screws O adapted to extend beyond the inner face of the flange and impinge against the friction-rail D, which is forced inward upon screwing said binding-screw in one direction and acts upon the movable rail G³ of the chase to force the same inward against the type-form, thus taking up all

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play between the form and the chase and holding the form securely within the chase. If desired, the screw may impinge directly against the movable wall of the chase and
 5 cause the latter to be contracted so as to securely lock the type-form therein. The particular manner of causing the chase to be contracted, depends entirely upon the form of machines in which it is to be used and I
 10 do not therefore limit myself to any particular means for contracting the chase, as this varies in different styles of machines.

Having thus described my invention, what I claim is,—

15 1. A type-chase comprising a bottom, two end rails secured to said bottom, a side rail also secured to said bottom, and a second side rail movable on said bottom and having sockets on its inner side in line with said
 20 end rails, screws passing through said movable rail and through the sockets thereof and entering the end rails, and coil-springs surrounding said screws and bearing at one of their ends against the inner ends of said

sockets and at their other ends against the 25 adjacent ends of the end rails.

2. The combination with a bed, of a chase having a movable rail and springs for holding said rail in its outermost position, and means on said bed for forcing said rail in- 30 ward.

3. The combination with a bed having up- standing flanges, of a contractible chase on said bed between said flanges, said chase comprising a bottom and four rails, one of 35 said rails being movable on said bottom, and means interposed between said movable rail and the adjacent rails to hold said movable rail in its outermost position, said movable rail yielding under pressure. 40

In testimony whereof, I have affixed my signature in the presence of two subscribing witnesses.

CHARLES E. ADAMSON.

Witnesses:

ELLA C. PLUECKHAHN,
 CHRIST FEINLE, JR.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."