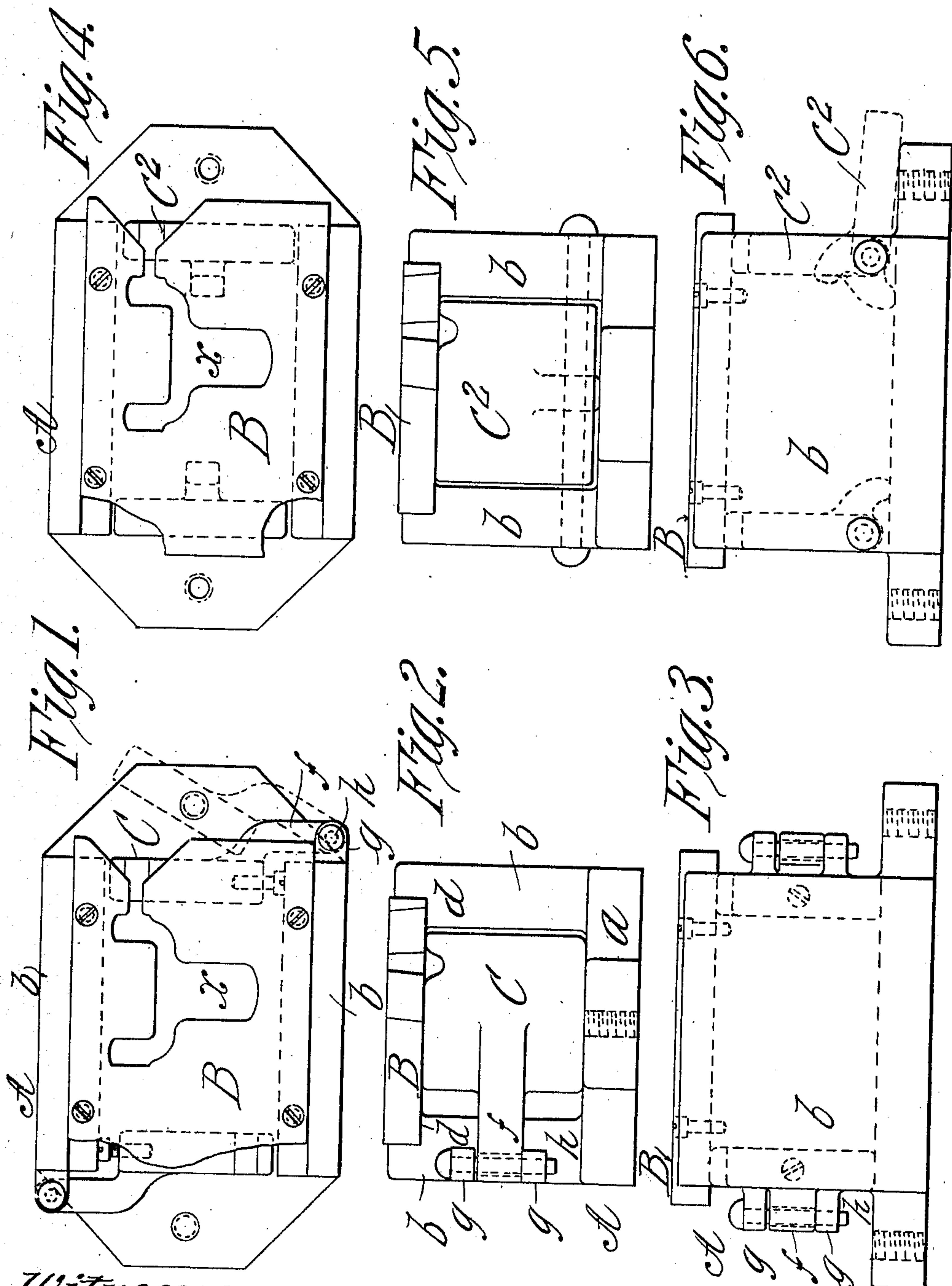


No. 885,427.

PATENTED APR. 21, 1908.

L. P. BLOT.
TRIMMING CHAIR FOR FORGINGS.
APPLICATION FILED DEC. 20, 1907.



UNITED STATES PATENT OFFICE.

LUCIEN P. BLOT, OF SPRINGFIELD, MASSACHUSETTS.

TRIMMING-CHAIR FOR FORGINGS.

No. 885,427.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed December 20, 1907. Serial No. 407,328.

To all whom it may concern:

Be it known that I, LUCIEN P. BLOT, a citizen of the United States of America, and resident of Springfield, in the county of Hampden and State of Massachusetts, have invented certain new and useful Improvements in Trimming-Chairs for Forgings, of which the following is a full, clear, and exact description.

As well known, forgings coming from the forging drop in which they are produced by the forging dies, come out with fins or "flashes" as termed around the middle portion of the body of the forging; and such fins or flashes are removed either while the forging is still red-hot, or when cool, by being subjected to the action of trimming dies.

The trimming dies comprise a hollow body or chair having at the top thereof a die plate with an opening therethrough, having the shape of the desired finished forging,—the chair or hollow body being open at its end, and for coaction therewith a male or plunger die is employed to drive the forging through the die plate opening to effect the removal of the flash; and then with a tongs, or otherwise, the trimmed forging is drawn out through the end opening in the chair.

Heretofore, the trimming chair, endwise open as mentioned, has left the die plate unsupported at the end portion of such die plate which spans the open end of the chair; and in usage, after a comparatively short time such unsupported end portion of the die plate has become distorted or ruptured, making its replacement necessary at the cost of money and time.

The present invention consists in a hollow metallic body or chair having an opening at its end, and including a top plate provided with a trimming die opening therethrough, and a member which is hinge connected to the end portion of the chair and movable to have a supporting engagement under the end of the die plate and to be displaced from the open end of the chair for freely permitting the withdrawal of a trimmed forging from within the latter.

The improved hollow trimming body or chair is illustrated in the accompanying drawings, in which,—

Figure 1 is a plan view; Fig. 2 is an end view, and Fig. 3 is a side elevation; Figs. 4, 5 and 6 are respectively similar views to Figs. 1, 2 and 3, but showing a modification in the manner of the hinge connecting a movable

supporting member at the open end portion of the chair.

Similar characters of reference indicate corresponding parts in all of the views.

In the drawings,—A represents a hollow body or chair, the same including a suitably massive base *a* and opposite upstanding integrally formed side walls *b b* provided at the upper edges thereof with specially shaped rests or seats *d d* for the support, removable thereon, of the trimming die plate B, within which is the die opening *x*, the shape of which is variable in different instances to correspond to that of differently finished forgings.

The substantially trough-shaped hollow body or chair is constructed open essentially at one of its ends, and provided at such open end is a member or block C having an extension hinge lug *f* which is matched between ear lugs *g g* integrally formed at one end of the chair near one side thereof, a suitable pivot stud *h* connecting the hinge lugs. The said hinged and movable block or member C is of such dimensions vertically as to be itself supported while in the inward or closed position thereof by, and on, the base of the chair, and to then also be in contact under and support the adjacent end portion of the die plate; and yet the said supporting member is conveniently susceptible of removal by being swung on its hinge out from the open end of the chair to leave free way from within the latter for the withdrawal of the forging forced by the male trimming die through the die opening.

The block or hinged member C has at the vertical edge thereof adjacent the hinge a screw, the shank of which is adjustably engaged in the block for constituting a stop for limiting the inward movement of the die plate supporting part.

In the drawings, as a matter of increased convenience and for rendering any one of the chairs either a "right" or "left", the hinged die plate supporting member is shown duplicated in both ends of the chair, which, in such case, are open.

In Figs. 4, 5 and 6, the supporting member C² instead of being hinged on a vertical axis for a swinging movement in a horizontal plane is shown as hinged at the lower end of the chair on a horizontal axis for a quadrantal swinging movement from a horizontal open position to a vertical, die plate supporting position, as is manifest, for substantially the same beneficial and reinforcing effect rela-

tively to the chair spanning end portion of the trimming die plate.

I claim:—

1. In an apparatus for trimming forgings, a hollow metallic body having an opening at its end, and including a top plate provided with a trimming die opening therethrough, and provided with a member which is hinge connected to the hollow body and movable to have a supporting engagement under the end portion of the die plate and to be displaced from the open end of the hollow body for freely permitting the withdrawal of a trimmed forging.
2. In an apparatus for trimming forgings, a hollow metallic trough shaped body or chair having an opening at its end, and having at the upper edge of its upstanding opposite walls step shaped rests or seats, a top plate provided with a trimming die opening therethrough, removably supported at its opposite edge portions by said rests, and a member, hinge-connected to the hollow body and movable to have a supporting engage-

ment under the end portion of the die plate and to be displaced from the end of the hollow body for permitting, freely, the withdrawal of a trimmed forging from within the chair.

3. In an apparatus for trimming forgings, a hollow metallic body or chair having an opening at its end, and including a top plate provided with a trimming die opening therethrough, and provided with a member which is hinge connected to the end portion of the chair and movable and adapted to be itself supported in one position thereof by the base of the chair, and to then support the end portion of the die plate, and to be displaced from the open end of the chair to permit the withdrawal from therewithin of a trimmed forging.

Signed by me at Springfield, Mass., in presence of two subscribing witnesses.

LUCIEN P. BLOT.

Witnesses:

WM. S. BELLOWS,
G. R. DRISCOLL.