No. 841,457. PATENTED JAN. 15, 1907.

L. SCHMIDT.

SINGLE TYPE CASTING MACHINE.

APPLICATION FILED JUNE 17, 1905.

Fig. 1

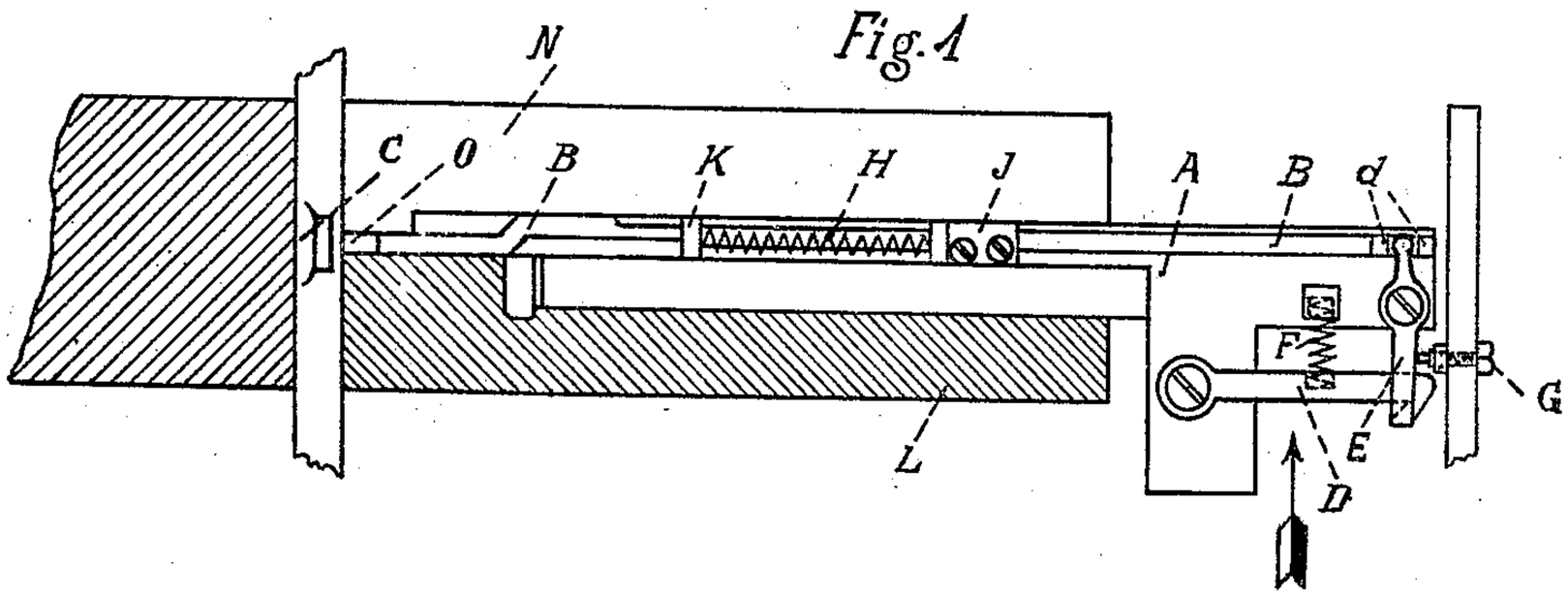


Fig. 2

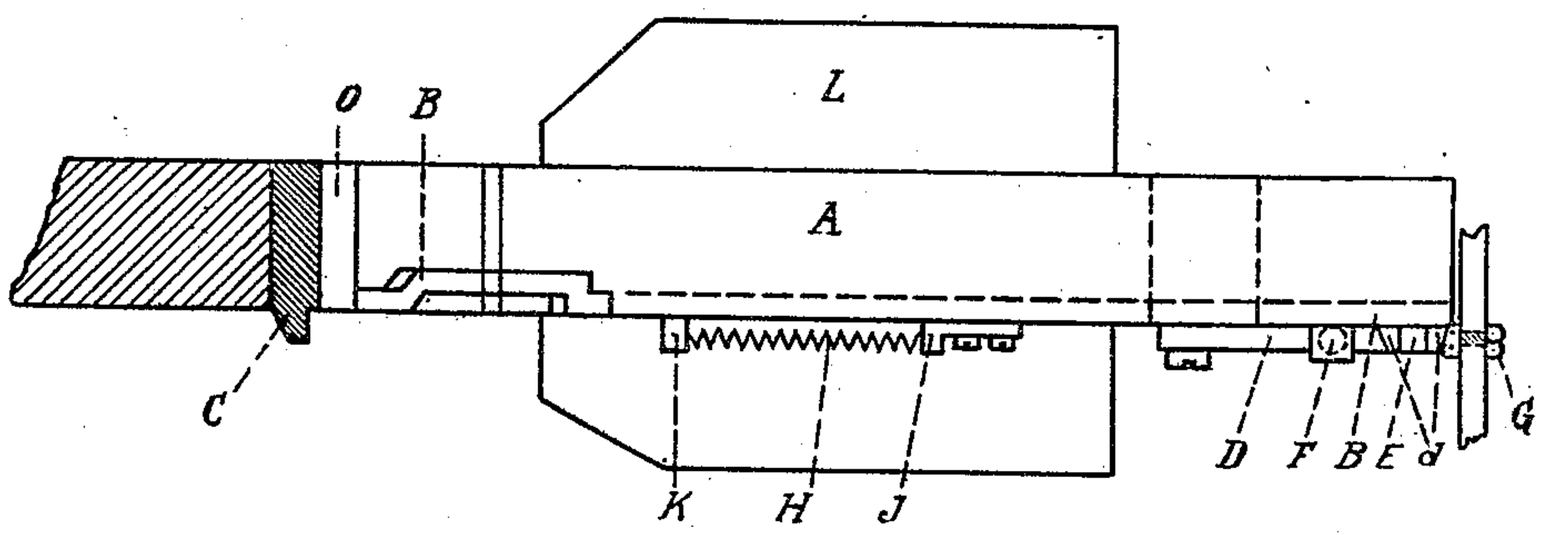
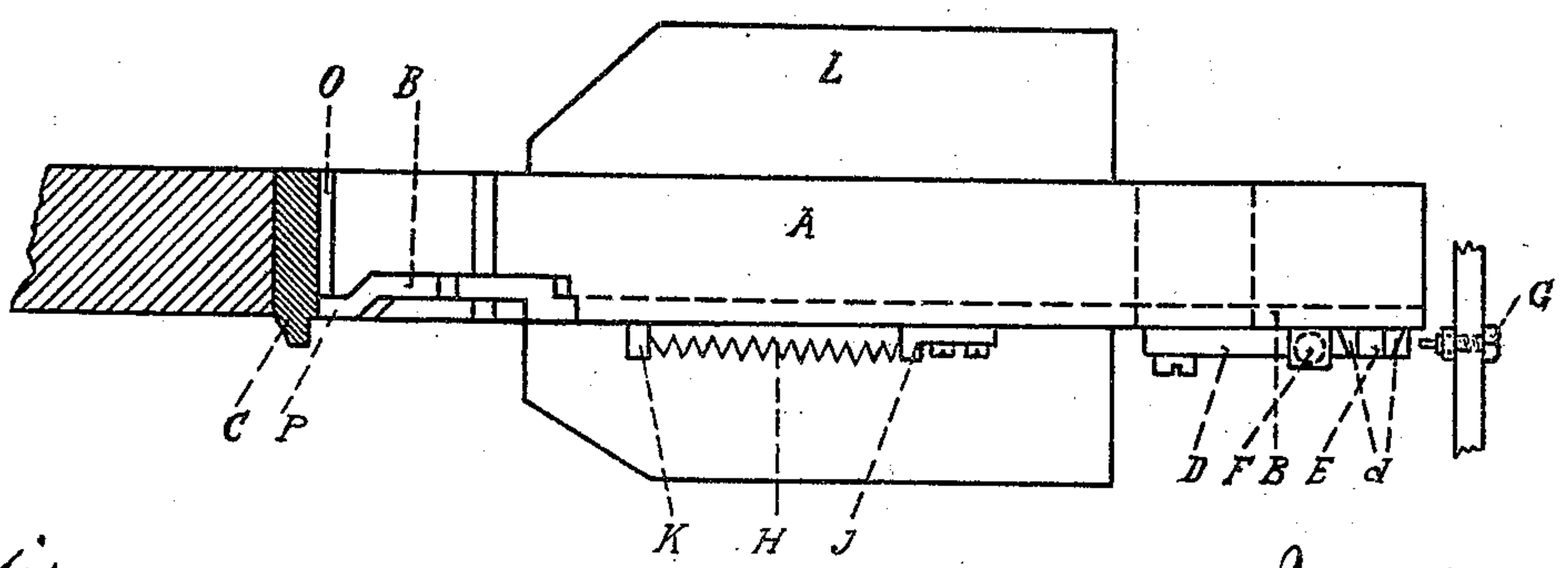


Fig. 3



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UNITED STATES PATENT OFFICE.

LUDWIG SCHMIDT, OF NUREMBERG, GERMANY, ASSIGNOR TO ELEKTRIZITATS-AKTIENGESELLSCHAFT, VORMALS SCHUCKERT & CO., OF NUREMBERG, GERMANY.

SINGLE-TYPE-CASTING MACHINE.

No. 841,457. Specification of Letters Patent. Patented Jan. 15, 1907.

Application filed June 17, 1905. Serial No. 265,817.

To all whom it may concern:

Be it known that I, LUDWIG SCHMIDT, mechanical engineer, a subject of the German Emperor, residing at Nuremberg, in the Kingdom of Bavaria, German Empire, have invented a new and useful Single-Type-Casting Machine, of which the following is a specification.

My invention relates to single-type-casting machines adapted for casting spaces of different heights—namely, either high or low, as circumstances may require—and more particularly to machines in which this object is attained by means of a main slide, an auxiliary slide guided in the main slide, taking-part in its motion and adapted to either shorten the mold by the width of the auxiliary slide or to leave it at the normal length, and a controlling device which determines the position of the auxiliary slide, and consequently the width of the mold.

In the accompanying drawings, Figure 1 is an elevation of a device embodying my invention; Fig. 2, a plan thereof when at rest, and Fig. 3 is a plan of the device in the working position.

A represents the main slide embedded in the frame L and carrying in a guide-slot an auxiliary slide B. The latter is normally held in place by means of a pair of cheeks *d*, a lever E, and a pawl D, pressed down by a spring F. This spring F controls, in a measure, the motion of the auxiliary slide B, and an adjustable set-screw G limits the same by limiting the motion of the double-armed upright lever E.

A spring H, forming part of the slide B, is fixed at one end to a pin secured to the angle-plate J and presses with the opposite end against the lug K.

The open space or gap O serves as the mold. It is situated between and limited by the sliding shutter C, the part N of the mold, Fig. 1, and the main slide A. In Figs. 2 and 3 the part N of the mold has been left out.

The mechanism hereinbefore described operates as follows: If the pawl D by means of a suitable mechanism actuated by the driving-shaft of the casting-machine is lifted in the direction indicated by the arrow, the lever E is released and the slide B is pushed forward by the spring H, so that a part of the mold O is shortened at P by the width of the slide B. During the backward motion of the slide A the lower part of the lever E is resting against the stop-screw G. This lever, which has so far occupied an inclined position, will now be forced again into a vertical position, and the hook on the end thereof will glide upward on the inclined end of the pawl D until the spring F, pressing constantly against said pawl, makes it snap into locking position, by which the lever E is kept fast in its initial position of rest. If the mechanism for lifting the pawl D is set out of action, the auxiliary slide B remains in its position of rest and the mold O retains its normal width.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. A type-casting machine having a mold, a main slide, and an auxiliary slide adapted to move therein, and yielding means between the two for shortening the mold to the space of the width of the auxiliary slide; in combination with a control device consisting of interlocking levers, yielding means between one of said levers, and the auxiliary slide and adjustable means for releasing the interlocking levers, substantially as described.

2. In a single-type-casting machine having an auxiliary slide B guided in a main slide A and adapted to advance toward the mold by spring action, in order to shorten the mold by the width of the auxiliary slide, the combination of said auxiliary slide with a controlling device consisting of locking-lever E, pawl D, spring F, and stop-screw G and adapted to operate substantially as described.

Signed at Nuremberg, in the Kingdom of Bavaria, this 5th day of June, 1905.

LUDWIG SCHMIDT.

Witnesses:
ALOIS GOBANZ,
OSCAR BOCK.