

# MOLD SLIDE SAFETY DEVICE

The purpose of the Mold Slide Safety is to stop the machine by disconnecting the driving clutch if any misalignment or interference prevents the mold slide from moving forward to lock-up position before the cast.

The device, which is incorporated in all new machines at the factory and which can be applied to outstanding Linotypes, consists of the following principal parts:—

- 1.—The addition of a two point stop lug A to the delivery and elevator transfer cam.
- 2.—The addition of a sliding plunger B to the automatic stopping lever (upper). This plunger is pulled forward into the path of the stop lug by spring C.
- 3.—The addition of a lever and link arrangement D to the two-piece mold slide levers. This controls the position and movement of the sliding plunger on the automatic stopping lever.

## OPERATION

In the normal operation of the machine, as the mold slide moves forward to the casting position, the lever and link arrangement D moves forward with the two-piece mold cam lever to push the sliding plunger B out of the path of the approaching stop lug A, as shown in Figure 1. However, if for some reason the mold slide does not move forward to casting position and a relative movement is caused between the two-piece mold cam lever, then the lever and link arrangement D will not move forward, thus allowing the sliding plunger B to remain in the path of the approaching stop lug A so that the stop lug will contact the upper surface of the sliding plunger (Fig. 2 and Fig. 3) and force the automatic stopping lever E downward,

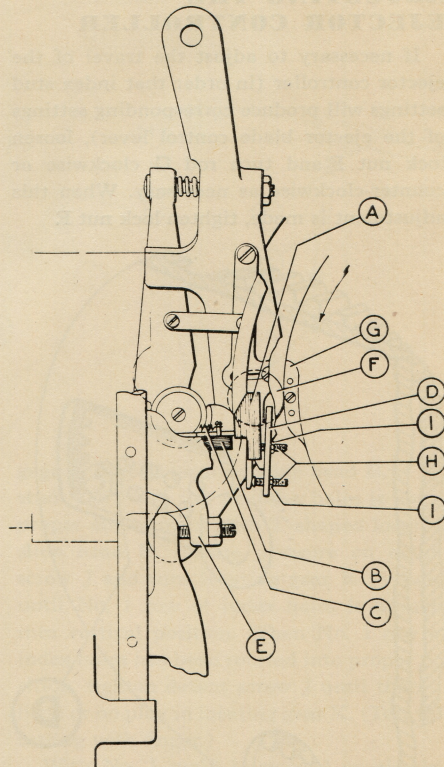


Fig. 1

which disconnects the driving clutch and stops the machine.

Figure 2.— Illustrates an interference caused by improper alignment of matrices with the mold. This can occur, for example, when the operator is casting two-letter display characters in the auxiliary position using both first elevator filling pieces and forgets to remove the top filling piece when casting from a U.A., Recessed, or One-Letter Display

mold. Note that in this case the lower ledge of the two point stop lug A is positioned to stop the machine.

Figure 3.—Illustrates an interference caused by misalignment of the mold disk locking stud block. Such a condition can occur with a six-pocket mold disk when the mold disk and its driving mechanism are coupled out of time. Note that the upper ledge of the two point stop lug A is positioned to stop the machine from this interference.

### ADJUSTMENT

Only one adjustment is necessary after application of the mold slide safety device, and this should be made with the motor shut off. Proceed as follows: Turn cams by hand until mold slide cam roller F rests on mold cam first shoe G. Adjust screws H on lever and link arrangement D so that the edge of plunger B will just clear the upper ledge of stop lug A, as shown in Figure 1. Then tighten lock nuts I.

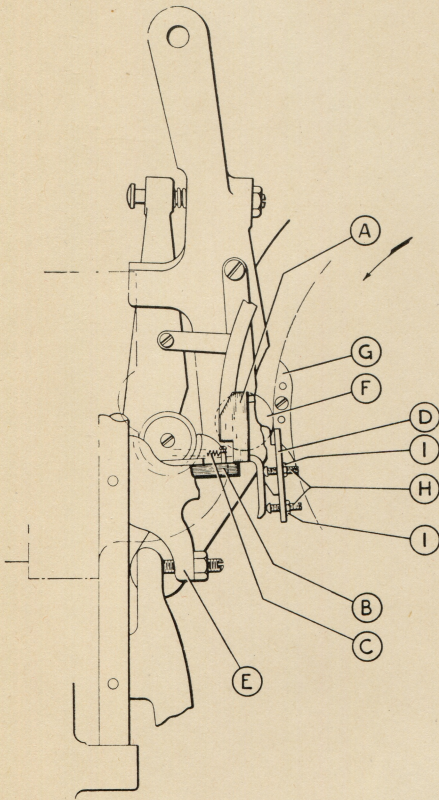


Fig. 2

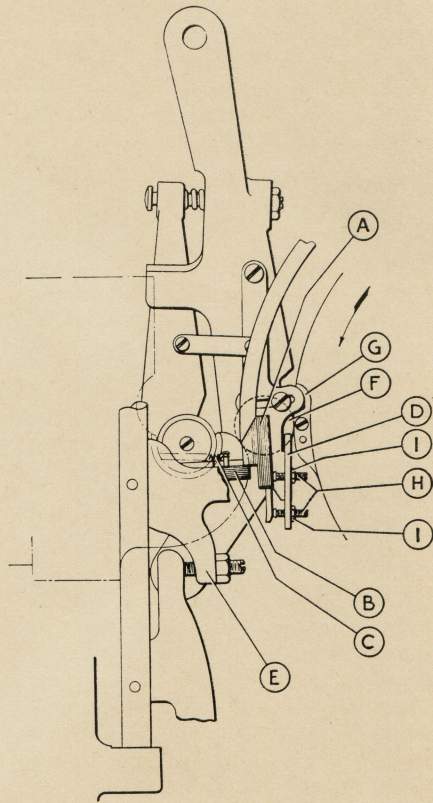


Fig. 3