

ABSTRACT
INJECTION MOLDING MACHINES

A mold support assembly for use in an injection molding machine comprises a first support structure (P) provided at a main face thereof with means (7b) for receiving, at respective different predetermined locations, a plurality of removable mold devices (8) formed with respective molding surface portions which, when the assembly is in use, face away from the said first support structure (P) towards a second support structure (Q) of the assembly, one (Q) of the first and second supporting structures being movable towards the other to bring about closure of respective mold cavities (17a) bounded by the said molding surface portions (8), the said first support structure (P) being provided also with a key-way (7a), extending in a direction substantially parallel to the said main face, for receiving a key member (9) that is movable selectively within the key-way between a mold-locking position, in which the key member serves to prevent removal of the mold devices (8) from the first support structure (P) and a mold-releasing position, in which such removal is facilitated.

Such an assembly can be used to facilitate simple and quick removal of the mold devices.

A mold device (17) for use in such a machine preferably includes an ejection mechanism (17c, 17d, 17e) having a movable member (17e) which can be caused, by selective actuation of a control mechanism (19c, 19d, 19e) of the assembly, to project through a molding surface portion (17a) of the mold device (17) to displace therefrom a molded product.

In such an arrangement, the position at which the movable member contacts the molded product can be selected freely in accordance with the kind of product being molded. Fig. 1