

Title (en)

DIE CAM UNIT PROVIDED WITH AUXILIARY RETURN DEVICE

Title (de)

STEMPELNOCKENEINHEIT MIT EINER HILFSRÜCKKEHRVORRICHTUNG

Title (fr)

UNITÉ DE CAME DE MATRICE POURVUE D'UN DISPOSITIF DE RAPPEL AUXILIAIRE

Publication

**EP 3590621 A1 20200108 (EN)**

Application

**EP 17866374 A 20170303**

Priority

KR 2017002311 W 20170303

Abstract (en)

Disclosed is a mold cam unit having an auxiliary return device, and more particularly, to a mold cam unit in which an auxiliary return device is additionally provided to a cam slider and a cam driver to ensure efficient return movement of the cam slider, resulting in increased operational efficiency. The mold cam unit includes: a cam base (20) including a slide portion formed in an installation space defined in a lower portion of a box-shaped body; a cam slider (30) located in the space of the cam base (20) and including therein a return spring (32) so as to reciprocatingly move along the slide portion; a cam driver (40) including a slide plate (41) mounted on an upper surface thereof to guide a lower slide groove (31) in the cam slider (30) to enable movement of the cam slider (30); a pressure member (50) provided on a lower surface of the cam slider (30) and including a downwardly bent pressure surface (51); and the auxiliary return device (60) provided on a side surface of the cam driver (40) that faces the pressure surface (51) and configured to come into contact with the pressure surface (51) via forward movement of the cam slider (30), thereby being elastically compressed. In addition, the cam slider (30) includes a positioning recess (33) formed in the lower surface thereof, and the pressure member (50) includes a positioning protrusion (52) formed on one surface thereof, which is in close contact with the lower surface of the cam slider (30). The cam driver (40) may include an installation hole (42) formed in the side surface thereof, into which the auxiliary return device (60) is inserted, and a separation-preventing piece (43) fixedly provided on an outer wall surface thereof to prevent separation of the auxiliary return device (60). In addition, the auxiliary return device (60) includes a housing (61) including one side surface formed with a passage hole and a remaining side surface that is open, a push member (62) including a push surface (62a) formed on one side thereof so as to be located in the passage hole (61a) in the housing (61) and configured to be guided so as to move along an inner space of the housing (61), a cover (63) configured to close the remaining side surface of the housing (61), and an elastic member (64) located between the push member (62) and the cover (63).

IPC 8 full level

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