

Title (en)

DEVICE FOR ARRANGED TRANSFER OF SUCCESSIVELY ADVANCED OBJECTS OR GROUPS OF OBJECTS

Publication

EP 0043403 B1 19840502 (DE)

Application

EP 81101677 A 19810307

Priority

DE 3024103 A 19800627

Abstract (en)

[origin: EP0043403A1] 1. A device for the orderly transfer to a processing station of objects of groups of objects (7) fed to the device in spaced succession, comprising transport means (1) conveying the objects individually or in groups along the feeding direction into a transfer station (8), the transport means (1) being followed at the transfer station by a swing mechanism (9) which operates in synchronism with the arrival of the objects or groups of objects (7), to which individual objects or groups of objects (7) can be fed by a pusher element (16) of a pusher device (14) operating in strict synchronism with the movement of the swing mechanism (9), and by which the individual objects or groups of objects (7) can be picked up by means of a pick-up element (13) in the receiving position and then pivoted upwardly by 90 degrees into a transfer position, and comprising further an ejector device (21) which is driven in strict synchronism with the movement of the swing device (9) and by which the objects or groups of objects (7) can be ejected from the pick-up element (13) of the swing device (9) in the transfer position in a charging direction for the processing station, characterized in that the transport means (1) comprises a continuously running conveyor element (3) provided with pairs of carrier elements arranged at a fixed spacing relative to each other and carrying between them one object or group of objects (7) each, that the pick-up element takes the form of a receiving cup (13) which is open on two sides and exhibits a substantially U-shaped cross-section and which in its receiving position is arranged laterally of the transport means (1), that the pusher device (14) of the swing device (9) is provided on the side of the transport device (1) opposite the receiving cup, and that the pusher part (16) moves at high speed, the spacing between the carrier elements (4) of each pair of carriers and the dimensions of the pusher element (16) being selected in such a manner that when the pusher element (16) occupies the position between the carrier elements (4), the latter can perform a lateral movement permitting the pusher element (16) to perform its reciprocating movement.

IPC 1-7

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