

Title (en)  
AUTOMATIC TRANSFER DEVICE FOR WORK PIECES IN A MULTISTATION FORMING MACHINE

Publication  
**EP 0206186 B1 19890104 (DE)**

Application  
**EP 86108162 A 19860614**

Priority  
CH 268085 A 19850624

Abstract (en)  
[origin: US4759208A] The proposed cross transfer device has two parallel support tubes (2a, 2b) which are displaceable in reciprocating manner in the workpiece transfer direction in the forming area and to which are fixed in each case an upper and a lower gripper box (3a, 3b). The two gripper boxes are used for the rectilinear guidance of gripper jaws (11) which interact in pairs, seize a workpiece at each forming station (U1 to U3) and can be transferred to the in each case adjacent forming station (U2 to U4) and released again. Transmission levers (6a, 6b) pivotably mounted in the gripper boxes (3a, 3b) are used for driving the gripper jaws (11), the pivoting movement of which transmission levers (6a, 6b) is controlled by a rotating camshaft (4a, 4b) which in each case is centrally mounted in one of the support tubes (2a, 2b) via antifriction bearings (15) and supporting pins (14). The cam members (5) of this camshaft are fan-type disks (5a, 5b) which can be adjusted in each case relative to the axis of rotation of the camshaft supporting it and relative to one another, so that each transmission lever (6a, 6b) can be individually set, independently of the further transmission levers provided, for controlling a certain gripper movement.

IPC 1-7  
**B21K 27/04**; **B21D 43/05**

IPC 8 full level  
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CPC (source: EP US)  
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