

Title (en)  
Flexible multiple axle transfer

Title (de)  
Flexibler Mehrachstransfer

Title (fr)  
Transfert multiaxial flexible

Publication  
**EP 0850710 B1 20011004 (DE)**

Application  
**EP 97122034 A 19971215**

Priority  
• DE 19654474 A 19961227  
• US 77070996 A 19961219

Abstract (en)  
[origin: EP0850710A1] The transfer unit (41) is intended for workpieces to be transported along a predetermined route, in particular, along several successive workstations. It includes a cross beam (46) provided with a holding device (47) for holding and releasing work-pieces, a carrier mechanism (50) for the cross beam enabling the holding device to be moved along a predetermined transfer curve (K), and a drive system which can move the cross beam (46) in at least two mutually independent directions (T, V). Such a system incorporates two independently controllable drive units (61, 62). The unit is improved by the following facts: a) carrier mechanism (50) is made up of link mechanisms (50a, 50b) located between the drive system and the cross beam (46); b) the cross beam (46) at one end is held by the linkage mechanism (50a) which determines the position of this end in two specified directions (T, V); c) the cross beam at the other end is held by the linkage mechanism (50b) which analogously determines the position of that end in these two directions, as well as in a further direction oriented perpendicular to the former two. Also claimed is a corresponding multistation installation (in particular, a press for sheet-metal work) which is improved by the presence of at least one transfer unit (41).

IPC 1-7  
**B21D 43/05**

IPC 8 full level  
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CPC (source: EP US)  
**B21D 43/05** (2013.01 - EP US)

Cited by  
DE10348643B3; DE10064155A1; EP1724218A4; DE10112393A1; DE10112393B4; DE10128184A1; DE10128184B4; DE10064154A1; DE10064154B4; WO2005108251A1; US7562765B2

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