

Title (en)  
Transfer device with three axes of transfer

Title (de)  
Transferanlage mit Dreiachsentransfer

Title (fr)  
Installation de transfert à trois axes de transfert

Publication  
**EP 0754510 B1 20011010 (DE)**

Application  
**EP 96111147 A 19960711**

Priority  
DE 19526490 A 19950720

Abstract (en)  
[origin: EP0754510A1] The device has transport drive unit (22), lifting drive unit (35), and transverse drive unit (40), which are all stationary. Coupling elements are located between transverse drive unit and grab rails (16, 17). The unit moves the rails towards and away from each other. It is in drive connection with the rails only when these are in a fixed position relative to the lifting direction (H), but is disconnected at all other times. The fixed position is the bottom extreme position of the rails. The grab rails are connected to a brake unit. The unit prevents the rails from moving in transverse direction (Q), when these are disconnected from the transverse drive unit.

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

IPC 8 full level  
**B21D 43/05** (2006.01); **B65G 47/74** (2006.01)

CPC (source: EP US)  
**B21D 43/055** (2013.01 - EP US)

Cited by  
CN111532752A; WO2014064123A1

Designated contracting state (EPC)  
DE ES FR GB IT SE

DOCDB simple family (publication)  
**EP 0754510 A1 19970122; EP 0754510 B1 20011010**; CZ 212396 A3 19970917; DE 19526490 A1 19970123; DE 59607866 D1 20011115; ES 2164197 T3 20020216; US 5803231 A 19980908

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**EP 96111147 A 19960711**; CZ 212396 A 19960717; DE 19526490 A 19950720; DE 59607866 T 19960711; ES 96111147 T 19960711; US 67882096 A 19960712