

Title (en)

DEVICE FOR THE TRANSFER OF A LOAD BY THRUST AND TRACTION IN THE SAME PLANE

Title (de)

VORRICHTUNG ZUM ZIEHEN UND DRUCKEN VON EINER LAST IN EINE GEWISSE EBENE

Title (fr)

DISPOSITIF DE TRANSFERT D'UNE CHARGE PAR POUSSEE ET TRACTION DANS UN MEME PLAN

Publication

**EP 0892758 B1 20000712 (FR)**

Application

**EP 97918205 A 19970411**

Priority

- FR 9700645 W 19970411
- FR 9604770 A 19960412

Abstract (en)

[origin: FR2747381A1] The present invention which discloses a device (1) for the transfer of a load (60) from a carrier onto a machine-tool supporting table and vice versa, is simple, inexpensive, very compact and of moderate weight. The transfer device consists of at least one handling arm (2) hinged and connected to the carrier and to the said load. The handling arm (2) is split into a front member (4) and a rear member (3) connected by a hinge. The closing and opening movement of the arm (2) is controlled by a jack (11) provided on the rear member (3) and its shaft is secured to a chain (12) intermeshing with two toothed wheels (14, 15) provided on the respective hinges (5, 6). The toothed wheels (14, 15) being stationary, the front (4) and rear (3) members of the arm rotate synchronously and in a ratio of 2 in relation to the jack (11), while the free end (7) of the arm follows a substantially rectilinear path parallel to the load transfer plane. The invention is useful in machine-tools, presses and any load transfer equipment.

IPC 1-7

**B66F 9/19**

IPC 8 full level

**B66F 9/19** (2006.01)

CPC (source: EP US)

**B66F 9/195** (2013.01 - EP US); **Y10T 74/1884** (2015.01 - EP US); **Y10T 74/18992** (2015.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**FR 2747381 A1 19971017; FR 2747381 B1 19980619**; CA 2251018 A1 19971023; CA 2251018 C 20040203; DE 69702512 D1 20000817; DE 69702512 T2 20010419; EP 0892758 A1 19990127; EP 0892758 B1 20000712; US 6129502 A 20001010; WO 9738934 A1 19971023

DOCDB simple family (application)

**FR 9604770 A 19960412**; CA 2251018 A 19970411; DE 69702512 T 19970411; EP 97918205 A 19970411; FR 9700645 W 19970411; US 17107298 A 19981009