

Title (en)

Tool-connecting device for an excavator.

Title (de)

Kupplungsvorrichtung zum Ankuppeln eines Gerätes an den Ausleger einer Baumaschine.

Title (fr)

Dispositif de fixation d'un outil sur un engin de terrassement.

Publication

EP 0321902 B1 19940316 (DE)

Application

EP 88121217 A 19881219

Priority

CH 500487 A 19871222

Abstract (en)

[origin: EP0321902A1] The connecting device is composed of a retaining frame (19) and retaining means, fastened to the tool (8), in the form of a retaining shaft (27) and a bearing support (31). The retaining frame (19) designed as a bell-crank lever has a half bearing shell (35) for enclosing the retaining shaft (27) and a connecting shaft (37) for inserting into the bearing support (31). The bearing frame (19) is mounted by means of two joints (14, 15) on the end arm (7) of a boom of an excavator and on a guide link (13) of a linear motor (10) interacting with the end arm (7). To connect a tool (8), the connecting shaft (37) is moved by means of a handle (38) into a position in which it can be inserted into a bore (32) of the bearing support (31) through a slot (33) made on the bearing support (31) and can be secured by turning the handle (38). By the retaining frame being arranged with the joints (14, 15) directly on the end arm (7) and the guide link (13) respectively, only a small overall height is required for the connecting device. <IMAGE>

IPC 1-7

E02F 3/40; **E02F 3/96**

IPC 8 full level

E02F 3/36 (2006.01); **E02F 3/40** (2006.01); **E02F 3/96** (2006.01)

CPC (source: EP)

E02F 3/3622 (2013.01); **E02F 3/3668** (2013.01); **E02F 3/3672** (2013.01)

Cited by

EP1983147A3; US5141385A; FR2852615A1; US5983535A; US6163989A; EP0864697A1; US5974706A; US6154989A; US11035094B1; US7086804B2; WO2015110209A1

Designated contracting state (EPC)

AT BE DE ES FR GB IT NL SE

DOCDB simple family (publication)

EP 0321902 A1 19890628; **EP 0321902 B1 19940316**; AT E103027 T1 19940415; CH 675266 A5 19900914; DE 3888492 D1 19940421

DOCDB simple family (application)

EP 88121217 A 19881219; AT 88121217 T 19881219; CH 500487 A 19871222; DE 3888492 T 19881219