

Title (en)

APPARATUS FOR CONNECTING TWO ABUTTING REINFORCING BAR ENDS BY A SLEEVE

Publication

EP 0060498 B1 19851023 (DE)

Application

EP 82101886 A 19820310

Priority

DE 3109687 A 19810313

Abstract (en)

[origin: ES8303595A1] A device for securing a sleeve on the abutting ends of two axially aligned reinforcing bars includes an upper device part, a lower device part aligned below the upper device part and a drawing die mounted on the lower device part. Cylinder-piston units interconnect the upper and lower device parts for moving the drawing die over the sleeve and coupling the reinforcing bars together. The cylinder-piston units are disposed in parallel relation to one another and to the axis of the drawing die. At least one cylinder-piston unit provides the drawing force and another provides a counteracting force. The cylinder-piston units are both located on the same side of the drawing device axis and are spaced at different distances from the drawing die axis.

IPC 1-7

B21D 39/04; **E04G 21/12**

IPC 8 full level

B21D 39/04 (2006.01); **E04C 5/16** (2006.01); **E04C 5/18** (2006.01); **E04G 21/12** (2006.01)

CPC (source: EP US)

B21D 39/04 (2013.01 - EP US); **E04C 5/165** (2013.01 - EP US); **Y10T 29/49934** (2015.01 - EP US); **Y10T 29/5367** (2015.01 - EP US); **Y10T 29/5383** (2015.01 - EP US); **Y10T 29/53996** (2015.01 - EP US)

Cited by

EP0874096A1; FR2711385A1; EP0716195A1; DE4018042A1; DE4018042C2

Designated contracting state (EPC)

AT BE CH FR GB IT LI NL

DOCDB simple family (publication)

EP 0060498 A2 19820922; **EP 0060498 A3 19830622**; **EP 0060498 B1 19851023**; AT E16153 T1 19851115; CA 1186139 A 19850430; DE 3109687 A1 19820923; DE 3109687 C2 19850627; ES 510373 A0 19830201; ES 8303595 A1 19830201; JP S57160526 A 19821002; JP S6137013 B2 19860821; US 4559691 A 19851224

DOCDB simple family (application)

EP 82101886 A 19820310; AT 82101886 T 19820310; CA 398261 A 19820312; DE 3109687 A 19810313; ES 510373 A 19820312; JP 3820282 A 19820312; US 60174084 A 19840419