

Title (en)
FLEXIBLE ELECTROMECHANICAL PUNCHING DEVICE

Title (de)
FLEXIBLE ELEKTROMECHANISCHE STANZVORRICHTUNG

Title (fr)
DISPOSITIF FLEXIBLE DE POINÇONNAGE ELECTROMECHANIQUE

Publication
EP 1848555 A1 20071031 (EN)

Application
EP 05702985 A 20050215

Priority
IB 2005050579 W 20050215

Abstract (en)
[origin: WO2006087607A1] The invention relates to a flexible electromechanical punch device mounted on, or controlled by, a robot arm or similar and further intended to hold a series of punch tools and cushion (4), or a multiple tool (5), connected to a multiple punch (7) which, in it self, may be connected to a base body (3) with attached linear gear system (1) and electromechanical drive unit (2) over a tool change system (6), in such a synchronized way that a spring retract system will be eliminated and that full control of the punch tool position in all directions will be met and that full feedback of motor current and position of the tool during penetration makes it possible to determine that a good punch has been performed relative the supposed material to be punched.

IPC 8 full level
B21D 28/36 (2006.01); **B25J 9/06** (2006.01); **B25J 9/08** (2006.01); **B25J 9/12** (2006.01)

CPC (source: EP US)
B21D 28/36 (2013.01 - EP US); **B25J 15/0491** (2013.01 - EP US); **Y10T 83/929** (2015.04 - EP US)

Citation (search report)
See references of WO 2006087607A1

Cited by
CN110270985A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006087607 A1 20060824; EP 1848555 A1 20071031; JP 2008529801 A 20080807; US 2008092712 A1 20080424

DOCDB simple family (application)
IB 2005050579 W 20050215; EP 05702985 A 20050215; JP 2007554662 A 20050215; US 79571805 A 20050215