

Title (en)  
PNEUMATIC DRIVE FOR A PUNCHING, CUTTING AND STAMPING DEVICE

Publication  
**EP 0249059 B1 19900307 (DE)**

Application  
**EP 87107223 A 19870519**

Priority  
DE 3619811 A 19860612

Abstract (en)  
[origin: US4798115A] A pneumatic drive for punching, cutting and stamping devices, which have two tool parts which can be moved toward one another, and of which preferably one, at least in the operating position, is fixedly connected to the machine frame, is constructed such that an opening gap, which is as large as possible, is created. Furthermore, when the tool parts are moved together, the pneumatic drive is operated at a low pressure, so that additional safety devices are not needed. A pneumatic cylinder is secured on the movable tool part for this purpose, the piston rod of the pneumatic cylinder being constructed lockably in at least one end position. The piston rod of a pressure clamping element is secured on the piston rod exiting from the pneumatic cylinder. The cylinder of the pressure clamping element is arranged or fixably stationarily and consists of at least two piston cylinder units with one common piston rod, which piston cylinder units are connected one behind the other.

IPC 1-7  
**B26D 1/04**; **B26D 5/12**

IPC 8 full level  
**B26D 1/04** (2006.01); **B26D 1/09** (2006.01); **B26D 5/12** (2006.01); **B26F 1/02** (2006.01)

CPC (source: EP US)  
**B26D 1/09** (2013.01 - EP US); **B26D 5/12** (2013.01 - EP US); **Y10T 83/8735** (2015.04 - EP US); **Y10T 83/8827** (2015.04 - EP US); **Y10T 83/8864** (2015.04 - EP US)

Cited by  
US4798115A; CN109250224A; EP3428079A1; US11505342B2

Designated contracting state (EPC)  
AT CH DE FR IT LI

DOCDB simple family (publication)  
**EP 0249059 A1 19871216**; **EP 0249059 B1 19900307**; AT E50722 T1 19900315; DE 3619811 A1 19871217; DE 3761802 D1 19900412; JP S62292395 A 19871219; US 4798115 A 19890117

DOCDB simple family (application)  
**EP 87107223 A 19870519**; AT 87107223 T 19870519; DE 3619811 A 19860612; DE 3761802 T 19870519; JP 14543387 A 19870612; US 5846987 A 19870605