

Title (en)  
Pneumatic device for presses.

Title (de)  
Pneumatik für Pressen.

Title (fr)  
Dispositif pneumatique pour presses.

Publication  
**EP 0273340 A1 19880706 (EN)**

Application  
**EP 87118917 A 19871221**

Priority  
IT 8550187 A 19870102

Abstract (en)  
According to the invention, the pneumatic device for presses includes two cylinders (1,2; 31, 32) with different diameters, communicating with each other, within which slide two pistons equipped with shafts (7,9; 33, 34) integrally connected with one another. The piston (1; 31) transmits a negligible power and it only serves the purpose of moving the upper part of the die until it brings it in the vicinity of its shutting point, while the other piston (2; 32) transmits the maximum power of the press in correspondence with the end stretch of the piston stroke. The device presents accident-prevention characteristics, since the entire stroke previous to the shutting of the die is performed by the cylinder transmitting a reduced power. A variation of execution of the device foresees that the lowering cylinder (31) and the power cylinder (32) be arranged side by side and with their axes parallel with each other.

IPC 1-7  
**B30B 1/38**

IPC 8 full level  
**B30B 15/16** (2006.01)

CPC (source: EP)  
**B30B 15/161** (2013.01)

Citation (search report)  
DE 2733399 A1 19790201 - KNAEBEL HORST

Designated contracting state (EPC)  
CH DE ES FR GB IT LI SE

DOCDB simple family (publication)  
**EP 0273340 A1 19880706**; IT 1210548 B 19890914; IT 8785501 A0 19870102

DOCDB simple family (application)  
**EP 87118917 A 19871221**; IT 8550187 A 19870102