

Title (en)  
Pneumatically operated precision pliers

Title (de)  
Pneumatische Präzisions-Zange

Title (fr)  
Pince de précision pneumatique

Publication  
**EP 1163979 B1 20061115 (DE)**

Application  
**EP 00112559 A 20000614**

Priority  
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Abstract (en)  
[origin: EP1163979A1] The implement, especially pneumatic tongs (1) has a cylinder (3) with one or more pneumatically operated pistons in a row. Each piston rod (6) in the cylinder cover (13) is sealed and guided by means of a seal (24) against the previous piston (5). Components (34,35) cooperate with the piston(s) for operating the implement. The pistons are supported by at least one piston-guide-belt towards the cylinder's inner wall.

IPC 8 full level  
**B25B 7/12** (2006.01); **B25B 27/14** (2006.01); **F15B 11/036** (2006.01); **F15B 15/14** (2006.01)

CPC (source: EP KR US)  
**B25B 7/12** (2013.01 - KR); **B25B 7/126** (2013.01 - EP US); **B25B 27/146** (2013.01 - EP US); **F15B 11/0365** (2013.01 - EP US); **F15B 15/1442** (2013.01 - EP US); **F15B 2211/40515** (2013.01 - EP US); **F15B 2211/41527** (2013.01 - EP US); **F15B 2211/455** (2013.01 - EP US); **F15B 2211/7055** (2013.01 - EP US); **Y10T 29/5377** (2015.01 - EP US); **Y10T 29/5383** (2015.01 - EP US)

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