

Title (en)  
HYDRAULIC ELEMENT AND DRAWING TOOL EQUIPPED WITH IT

Publication  
**EP 0251024 A3 19880817 (DE)**

Application  
**EP 87108650 A 19870616**

Priority  
DE 3620876 A 19860621

Abstract (en)  
[origin: US4796453A] A hydraulic element including a working cylinder defining a cylinder chamber having an axis and containing hydraulic medium, a working piston movable in the cylinder chamber along the axis and having an interior end arranged to communicate with the hydraulic medium in the cylinder chamber, and an annular piston movable in the cylinder chamber, along the axis, and enclosing the working piston, the annular piston having an interior end communicating with the hydraulic medium in the cylinder chamber so that movement of one of the pistons in a first direction along the axis causes the other of the pistons to move in a second direction opposite to the first direction.

IPC 1-7  
**B21D 24/14**

IPC 8 full level  
**B21D 24/00** (2006.01); **B21D 24/14** (2006.01)

CPC (source: EP US)  
**B21D 24/14** (2013.01 - EP US)

Citation (search report)  
• [X] US 2609775 A 19520909 - GAUDREAU RICHARD J  
• [A] DE 3424262 A1 19860109 - UNIPLANUNG GMBH & CO KG [DE]  
• [A] DE 3333687 A1 19850328 - UNIPLANUNG GMBH & CO KG [DE]

Cited by  
EP0333052A3

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

DOCDB simple family (publication)  
**EP 0251024 A2 19880107; EP 0251024 A3 19880817; EP 0251024 B1 19900905**; AT E56166 T1 19900915; DE 3620876 A1 19871223; DE 3620876 C2 19920423; DE 3764728 D1 19901011; JP S632522 A 19880107; US 4796453 A 19890110

DOCDB simple family (application)  
**EP 87108650 A 19870616**; AT 87108650 T 19870616; DE 3620876 A 19860621; DE 3764728 T 19870616; JP 15360887 A 19870622; US 6332787 A 19870618