

Title (en)  
HYDROPNEUMATIC MACHINE TOOL

Title (de)  
HYDROPNEUMATISCHE WERKZEUGMASCHINE

Title (fr)  
MACHINE-OUTIL HYDROPNEUMATIQUE

Publication  
**EP 0828942 A1 19980318 (DE)**

Application  
**EP 97920528 A 19970319**

Priority  
• DE 9700559 W 19970319  
• DE 19610726 A 19960319

Abstract (en)  
[origin: WO9735114A1] A machine tool is proposed which operates with a hydropneumatic pressure intensifier whose step piston (1) is braked hydraulically in particular towards the end of its stroke by forcing hydraulic fluid from a braking cavity (35) formed during the stroke via a choke point.

IPC 1-7  
**F15B 11/032**; **F15B 11/072**; **F15B 11/076**; **F15B 15/22**; **B30B 15/16**

IPC 8 full level  
**B30B 15/16** (2006.01); **F15B 11/032** (2006.01); **F15B 11/072** (2006.01); **F15B 11/076** (2006.01); **F15B 15/22** (2006.01)

CPC (source: EP US)  
**B30B 15/161** (2013.01 - EP US); **F15B 11/0325** (2013.01 - EP US); **F15B 11/076** (2013.01 - EP US); **F15B 2211/216** (2013.01 - EP US); **F15B 2211/7053** (2013.01 - EP US); **F15B 2211/775** (2013.01 - EP US)

Citation (search report)  
See references of WO 9735114A1

Cited by  
DE102008013374B4; DE102008013374A1

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DE FR IT

DOCDB simple family (publication)  
**WO 9735114 A1 19970925**; DE 19780220 D2 19980319; DE 59702132 D1 20000914; EP 0828942 A1 19980318; EP 0828942 B1 20000809; US 5943862 A 19990831

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**DE 9700559 W 19970319**; DE 19780220 T 19970319; DE 59702132 T 19970319; EP 97920528 A 19970319; US 95294698 A 19980305