

Title (en)  
MACHINE-TYPE DEVICE FOR RAISING MACHINE PUNCHES OF THE TYPE USING ADIABATIC ENERGY CHANGE

Title (de)  
MASCHINENARTIGE VORRICHTUNG ZUR ERHÖHUNG VON MASCHINENSTANZERN ANHAND VON ADIABATISCHEM ENERGIEWECHSEL

Title (fr)  
DISPOSITIF DE RELEVAGE DE POINCON POUR MACHINE DU TYPE MACHINE UTILISANT LA TRANSFORMATION DE L'ENERGIE ADIABATIQUE

Publication  
**EP 1919640 A1 20080514 (FR)**

Application  
**EP 06794530 A 20060804**

Priority  
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• FR 0552631 A 20050831

Abstract (en)  
[origin: FR2889977A1] The die lifter for an adiabatic energy conversion machine with a working table (20), die support, die and lifting cylinders, has the working table and die guide block (24) designed to provide for the positioning and movement of in-line lifting pushers (23, 30) operated by power cylinders (21) located beneath the working table, with each upper pusher (30) sliding in the guide block and lifting the die in certain operating stages.

IPC 8 full level  
**B21D 37/14** (2006.01); **B21D 37/10** (2006.01)

CPC (source: EP US)  
**B21D 28/00** (2013.01 - EP US); **B21D 28/16** (2013.01 - EP US); **B21D 37/10** (2013.01 - EP US); **B21D 37/14** (2013.01 - EP US); **Y10T 83/943** (2015.04 - EP US)

Citation (search report)  
See references of WO 2007026091A1

Cited by  
FR3021564A1; FR3021566A1; FR3051378A1; WO2015185851A1; WO2015185854A1

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