

Title (en)
UNDERDRIVE-TYPE PRESS

Title (de)
UNTERSETZUNGSPRESSE

Title (fr)
PRESSE A COMMANDE INFÉRIEURE

Publication
EP 2017071 A4 20101201 (EN)

Application
EP 07742935 A 20070508

Priority
• JP 2007059500 W 20070508
• JP 2006130815 A 20060509

Abstract (en)
[origin: EP2017071A1] [Object] An underdrive-type single action press capable of saving energy, saving space, and realizing high-precision formability in a well-balanced manner is provided. Particularly, a press capable of shortening a forming stroke, reducing overall height, exactly correcting the deflection of the slide or dies to improve adhesion of the dies to a workpiece, and realizing pressure equalization of a wrinkle holder is provided. [Means for Resolution] An underdrive-type press includes a forming press unit including a lower die located inside an annular wrinkle holder fixedly disposed on a bed, and a drive mechanism disposed within the bed to raise or lower a slide supporting the lower die, a slide raised or lowered by a drive mechanism loaded on the side of a crown, a die-clamping press unit including an upper die having a clamping portion pinching a workpiece in cooperation with the wrinkle holder at its peripheral edge, and a device applying a pressing force to the upper die from its back after the last stage of the descent of the slide of the die-clamping press unit and the upper die for improvements in forming precision.

IPC 8 full level
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CPC (source: EP US)
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Citation (search report)
• [X1] US 2217172 A 19401008 - LAUSSUCQ HENRI P L
• [X1] CH 638410 A5 19830930 - ALUMINIUMWERKE AG RORSCHACH [CH]
• [AD] JP 2001300778 A 20011030 - AMINO KK
• [A] JP S60174219 A 19850907 - NISSAN MOTOR
• [A] JP S5947028 A 19840316 - NISSAN MOTOR
• See references of WO 2007138820A1

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