

Title (en)

DIE CUSHION DEVICE COMPRISING A MODULAR HYBRID DRIVE UNIT

Title (de)

ZIEHKISSENVORRICHTUNG MIT MODULAREM HYBRIDANTRIEB

Title (fr)

DISPOSITIF DE COUSSIN HYDRAULIQUE À ENTRAÎNEMENT HYBRIDE MODULAIRE

Publication

**EP 2104578 A2 20090930 (DE)**

Application

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Abstract (en)

[origin: WO2008064669A2] The invention relates to a die cushion device (50) for a forming press (51) for generating a blank retaining force (F53) between a bottom die (5) and a top die (3). Said die cushion device (50) comprises at least one hybrid drive unit (52) which acts upon at least one blank holder (4) of the bottom die (5) and is formed by at least one first drive unit and at least one second drive unit. The first drive unit and the second drive unit form a die cushion module (9) that encompasses a part, by means of which the blank holder (4) can be moved upward and downward by at least one of the drive units. A downward pressure that can be transmitted from the top die (3) to said part and causes a descending movement can be blocked or decelerated only by the first drive unit in order to prevent the second drive unit from being overloaded, the part being disconnectable from the second drive unit during the descending movement.

IPC 8 full level

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