

Title (en)

DRIVE FOR A PUNCH-SIDED EJECTOR SLIDABLY MOUNTED IN A RAM OF A MECHANICAL FORMING PRESS

Publication

EP 0392371 B1 19931006 (DE)

Application

EP 90106573 A 19900405

Priority

DE 3911921 A 19890412

Abstract (en)

[origin: EP0392371A2] In a drive for a punch-side ejector slideably mounted in a ram (6) of a mechanical forming press and having a bent lever (15) which is swivellably mounted in the ram (6), one limb (14) of which acts on that end of the ejector which faces away from the punch and the other limb of which is in drive connection with a link (17) which is articulated on a driving connecting rod (5) for the ram (6) and transmits driving movements cyclically to the bent lever (15), the object is to avoid linear contacts in the drive connection and to make possible adaptation to different heights of the die and punch. The solution consists in designing the drive connection as far as possible as a link chain, the link (17) articulated on the driving connecting rod lying approximately at right angles to the direction of motion of the ram (6) and that arm of a two-armed lever (19) which is articulated on the said link extending approximately parallel to the direction of motion of the ram (6). <IMAGE>

IPC 1-7

B21J 13/14

IPC 8 full level

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CPC (source: EP US)

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EP 0392371 A2 19901017; **EP 0392371 A3 19910424**; **EP 0392371 B1 19931006**; CA 2014368 A1 19901012; CA 2014368 C 20000208; DE 3911921 A1 19901018; DE 59002966 D1 19931111; ES 2045615 T3 19940116; RU 2018405 C1 19940830; RU 2071860 C1 19970120; US 5031439 A 19910716; US 5031439 B1 19930629

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