

Title (en)

Radial press for pressing rotationally symmetrical hollow components

Title (de)

Radialpresse zum Verpressen von rotationssymmetrischen Hohlkörpern

Title (fr)

Presse radiale pour sertir des corps creux à symétrie de rotation

Publication

EP 1510269 B1 20080102 (DE)

Application

EP 04019811 A 20040820

Priority

DE 10339291 A 20030827

Abstract (en)

[origin: US2005061052A1] A radial press (1) for pressing hollow workpieces has a press frame with press yokes (2, 3) movable relative to one another and a press drive with a given pressing direction (P) and a set of press jaws (14) with at least four pressing faces (8a, 9a, 10a, 11a) which are movable relative to a workpiece axis. The press yokes (2, 3) have on each side of a dividing gap (T) a recess (4, 5) with initial slide surfaces (6a, 7a) on which at least two supports (8, 9, 10, 11) situated displaceably opposite one another relative to the gap (T). To improve synchronization of the movement of the press surfaces: a) the first slide surfaces (6a, 7a) for the displaceable supports (10, 11) are aligned parallel to one another and perpendicular to the pressing direction (P), b) two of the oppositely lying support bodies (10, 11) displaceable in the direction of the sliding surfaces (6a, 7a) can be displaced by a wedge-shaped thrusting body (12) which can move parallel to the dividing gap (T), the thrusting body (12) being mounted in the recesses (4, 5) between two second slide surfaces (6b, 7b), said second slide surfaces (6b, 7b) forming an angle "alpha" between them, and c) if the angle "alpha" is chosen such that the path of the thrusting body (12, 60) parallel to the dividing gap (T) is of the same magnitude as the pressing stroke of the press yokes (2, 3) perpendicular thereto. Simply expressed, what is involved is the 45 degree rotation of the known sets of press jaws with their supporting and slide surfaces in the press yokes.

IPC 8 full level

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CPC (source: EP US)

B21D 39/048 (2013.01 - EP US); **Y10T 29/5367** (2015.01 - EP US); **Y10T 29/53987** (2015.01 - EP US)

Cited by

DE102009057726A1; WO2011069652A1; CN102712024A; WO2007093896A1; US8381645B2

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DOCDB simple family (publication)

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DE 502004005807 D1 20080214; EP 1510269 A1 20050302; EP 1510269 B1 20080102

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