

Title (en)

Two parallel staggered rows die forming system for approximately circular shape parts, in order to limit sheet scraps in productions by coil fed transfer presses

Title (de)

Stempelprägesystem mit zwei parallel gestaffelten Reihen für ungefähr kreisförmige Teile zur Einschränkung von Blechschrott bei der Herstellung durch spulenbeschickte Transferpressen

Title (fr)

Système de formation de matrice à deux rangées étagées parallèles pour pièces de forme approximativement circulaire, en vue de limiter les déchets de feuille de productions dans des presses de transfert alimentées par bobine

Publication

EP 2808102 A1 20141203 (EN)

Application

EP 13169938 A 20130530

Priority

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Abstract (en)

A two parallel staggered rows die forming system for approximately circular shape parts, in order to limit sheet scraps in productions by coil fed transfer presses. The complete system consists of: - unwinding reel (5) of the sheet metal coil (2) , straightener press; - feeder (7) of the sheet metal strip (2) to the first mould; - Transfer press equipped with a line of dies; - Transfer system (9) of the piece from one die to another; - Clamping systems (26, 27) of the piece (3).

IPC 8 full level

B21D 28/06 (2006.01); **B21D 43/02** (2006.01)

CPC (source: EP)

B21D 28/06 (2013.01); **B21D 43/02** (2013.01)

Citation (search report)

- [Y] US 3589221 A 19710629 - DEEGAN JAMES J
- [Y] FR 2350900 A1 19771209 - WARNKE UMFORMTECH VEB K [DD]
- [Y] JP S5947099 A 19840316 - MATSUSHITA ELECTRIC IND CO LTD
- [A] FR 2237698 A1 19750214 - IWK PRESSEN GMBH [DE]
- [A] JP 2012152813 A 20120816 - AISIN AW CO
- [A] JP S55165234 A 19801223 - FUTAKI MASATOSHI
- [A] JP S5750225 A 19820324 - FUJITA HARUJI, et al

Cited by

CN112792215A; CN110083932A; CN106270151A; CN112122966A; CN104759515A; CN104759517A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

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