

Title (en)

Pressing method and system wherein cushion pin load is detected by load detector for diagnosis for even distribution of blank holding force

Title (de)

Ziehverfahren und System, bei welchen die an elastischen Druckbolzen angebrachte Kraft durch Lastsensoren gemessen wird, um eine regelmässige Verteilung der Werkstückshaltekräfte zu beurteilen

Title (fr)

Méthode d'emboutissage et système par lesquels la charge appliquée à des poussoirs élastiques est détectée par des capteurs de charge afin de diagnostiquer la régularité de la distribution de la force de serrage de l'ébauche

Publication

EP 0740968 A1 19961106 (EN)

Application

EP 96106834 A 19960430

Priority

JP 10721295 A 19950501

Abstract (en)

Pressing method and system wherein a drawing operation on a blank (40) is performed by a die (18) and a punch (10) during a movement of the die with a pressure ring (28) relative to the punch against a movement resistance applied to a cushion platen (26), such that the blank is held by and between the pressure ring and the die, with a blank holding force which is generated based on the movement resistance of the cushion platen and is transmitted to the pressure ring through cushion pins (22) interposed between the cushion platen and the pressure ring, and wherein a load which is transmitted to the pressure ring through each cushion pin (22) during the drawing operation is detected, and a determination is made as to whether the blank is adequately held by the blank holding force, depending upon whether a predetermined characteristic value or values of the detected load transmitted through each cushion pin satisfies a predetermined condition for even distribution of the blank holding force to the pressure ring through all of the cushion pins. <IMAGE>

IPC 1-7

B21D 24/14

IPC 8 full level

B21D 24/02 (2006.01); **B21D 24/04** (2006.01); **B21D 24/08** (2006.01); **B21D 24/10** (2006.01); **B30B 15/00** (2006.01); **B30B 15/02** (2006.01); **B30B 15/28** (2006.01)

CPC (source: EP KR)

B21D 24/02 (2013.01 - EP); **B21D 24/14** (2013.01 - EP); **B30B 15/0094** (2013.01 - EP KR)

Citation (search report)

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Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0740968 A1 19961106; CA 2175407 A1 19961102; CN 1137427 A 19961211; JP 2776296 B2 19980716; JP H08300058 A 19961119; KR 960040493 A 19961217

DOCDB simple family (application)

EP 96106834 A 19960430; CA 2175407 A 19960430; CN 96100233 A 19960430; JP 10721295 A 19950501; KR 19960008204 A 19960325