

Title (en)

Methods for constructing a die for press bending machine and determining cushion forces therefore

Title (de)

Verfahren zum Herstellen einer Matrize für eine Biegepresse und zum Bestimmen der Niederhalterkräfte

Title (fr)

Procédé de fabrication d'une matrice pour presse plieuse et pour la calculation des forces de serrage du serre-flan

Publication

**EP 0893171 A1 19990127 (EN)**

Application

**EP 98113902 A 19980724**

Priority

JP 19889997 A 19970724

Abstract (en)

A simulation method for realizing a very approximate contour of the press bent product to the actual contour is proposed on a mathematical model in which a distance between a pair of clamping parts is kept at a constant. Also, a method of determining the clamping pressure which keeps the distance at the constant is proposed. By these methods, a preparation period for mass production by press working is reduced. <IMAGE>

IPC 1-7

**B21D 22/22**; G06F 17/50; B21D 24/00

IPC 8 full level

**B21D 22/22** (2006.01); **B21D 24/02** (2006.01); **B21D 37/20** (2006.01)

CPC (source: EP)

**B21D 22/22** (2013.01); **B21D 24/02** (2013.01); **B21D 37/20** (2013.01)

Citation (search report)

- [A] US 5379227 A 19950103 - TANG SING C [US], et al
- [A] US 5463558 A 19951031 - TANG SING C [US], et al
- [A] EP 0773075 A2 19970514 - TOYOTA MOTOR CO LTD [JP]

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DE FR

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