

Title (en)
METHOD OF AND DEVICE FOR BENDING BAR-SHAPED MATERIALS

Publication
EP 0121896 B1 19871119 (DE)

Application
EP 84103662 A 19840404

Priority
DE 3312397 A 19830406

Abstract (en)
[origin: US4702097A] In order to form materials (18) in a cold state automatically and reproduceably a bending machine (10) is proposed, comprising at least two bending carriages (14, 16), which interact with the material so that one of the bending carriages (14 or 16) constantly holds the material (18) immoveable when the other bending carriage (16 or 14) is bending the material (12) or is being moved along it.

IPC 1-7
B21D 11/12

IPC 8 full level
B21D 11/12 (2006.01)

CPC (source: EP US)
B21D 11/12 (2013.01 - EP US); **Y10S 72/702** (2013.01 - EP US)

Cited by
EP0238026A1; EP0334353A1; DE3919607A1; EP0371960A3; WO8505053A1; WO8909104A1

Designated contracting state (EPC)
AT CH DE FR GB IT LI SE

DOCDB simple family (publication)
EP 0121896 A2 19841017; EP 0121896 A3 19850123; EP 0121896 B1 19871119; EP 0121896 B2 19911218; AT E30861 T1 19871215; DE 3312397 A1 19841011; DE 3467519 D1 19871223; US 4702097 A 19871027

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EP 84103662 A 19840404; AT 84103662 T 19840404; DE 3312397 A 19830406; DE 3467519 T 19840404; US 83968886 A 19860314