

Title (en)
BENDING MACHINE WITH MANDREL

Publication
EP 0106030 B1 19861230 (DE)

Application
EP 83106995 A 19830716

Priority
DE 3238264 A 19821015

Abstract (en)
[origin: US4538436A] A pipe bending machine has a travelling carriage, a bending template, a bending mandrel arranged in a pipe to be bent near the bending template and having a mandrel rod, a cylinder-piston unit for withdrawing the mandrel, and a measuring device associated with the mandrel rod and arranged to actuate in the event of overloading of the mandrel rod a switch element so as to stop or eliminate the overloading of the mandrel or the mandrel rod.

IPC 1-7
B21D 9/05

IPC 8 full level
B21D 9/05 (2006.01); **B21D 9/07** (2006.01)

CPC (source: EP US)
B21D 9/073 (2013.01 - EP US)

Citation (examination)
DE 2732046 A1 19790201 - SCHWARZE RIGOBERT

Cited by
DE102012009845A1; FR2737674A1; WO2011029594A3; EP2667073A1

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
EP 0106030 A1 19840425; EP 0106030 B1 19861230; CA 1202871 A 19860408; DE 3238264 A1 19840419; DE 3238264 C2 19900906; DE 3368537 D1 19870205; US 4538436 A 19850903

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EP 83106995 A 19830716; CA 439017 A 19831014; DE 3238264 A 19821015; DE 3368537 T 19830716; US 54206883 A 19831014