

Title (en)
ROLLING MILL USING VARIABLE CROWN ROLL

Publication
EP 0019737 B1 19830608 (EN)

Application
EP 80102342 A 19800430

Priority
JP 6445979 A 19790524

Abstract (en)
[origin: EP0019737A1] A multi-high rolling mill comprising work rolls and back-up rolls, in which at least one of said rolls is a variable crown roll having the extent of crowning controlled by a pressure medium.

IPC 1-7
B21B 13/14

IPC 8 full level
B21B 13/14 (2006.01); **B21B 27/02** (2006.01); **B21B 27/05** (2006.01); **B21B 37/34** (2006.01); **B21B 37/38** (2006.01)

CPC (source: EP)
B21B 27/05 (2013.01); **B21B 37/34** (2013.01); **B21B 37/38** (2013.01)

Cited by
EP2392416A1; DE102010029598A1; CN113393753A; FR2488161A1; DE3819303A1; AU575139B2; FR2555076A1; EP0050319A3; US8277645B2; WO9000450A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0019737 A1 19801210; EP 0019737 B1 19830608; AU 537257 B2 19840614; AU 5690380 A 19801127; CA 1147990 A 19830614; DE 3063658 D1 19830714; JP S55156606 A 19801205; JP S5926365 B2 19840627

DOCDB simple family (application)
EP 80102342 A 19800430; AU 5690380 A 19800327; CA 348781 A 19800327; DE 3063658 T 19800430; JP 6445979 A 19790524