

Title (en)
Rolling mill with large opening

Title (de)
Walzwerk mit grosser Öffnung

Title (fr)
Laminoir à grande ouverture

Publication
EP 0738546 B1 19990616 (FR)

Application
EP 96400848 A 19960419

Priority
FR 9504665 A 19950419

Abstract (en)
[origin: EP0738546A1] The rolling mill comprises two spaced uprights (1) with two or more working rollers (2,2') with parallel axes. A gap between the rollers allows the product (A) to be rolled. The roller axles rotate in chocks (4,4') set in ports in the uprights. Hydraulic cylinders (61), acting through the chocks on either side of a locking plane (P2), apply pressure to the rollers. At least one of the hydraulic cylinders is equipped with a rod support which fits into a recess (41) in the chock, and goes as far as its thrust section (45). On each side of the recess there are smooth surfaces which are able to slide along adjacent guide surfaces of the upright's port. Each side of the chock also has a U-shaped sliding surface with a central section and two side projections enclosing the recess.

IPC 1-7
B21B 1/02; **B21B 29/00**

IPC 8 full level
B21B 29/00 (2006.01); **B21B 31/10** (2006.01); **B21B 1/02** (2006.01); **B21B 3/00** (2006.01)

CPC (source: EP)
B21B 29/00 (2013.01); **B21B 31/106** (2013.01); **B21B 1/026** (2013.01); **B21B 3/00** (2013.01); **B21B 2003/001** (2013.01)

Cited by
WO2017158306A1; CN116274350A; FR3048899A1; CN108778541A; CN117066329A; US10882089B2

Designated contracting state (EPC)
BE DE ES GB GR IT

DOCDB simple family (publication)
EP 0738546 A1 19961023; **EP 0738546 B1 19990616**; DE 69602878 D1 19990722; DE 69602878 T2 20000127; FR 2733171 A1 19961025; FR 2733171 B1 19970704

DOCDB simple family (application)
EP 96400848 A 19960419; DE 69602878 T 19960419; FR 9504665 A 19950419