

Title (en)
Rolling mill and tandem rolling mill having the same

Title (de)
Walzwerk und Tandemwalzwerk damit

Title (fr)
Laminoir et laminoir tandem le comprenant

Publication
EP 2277637 B1 20130327 (EN)

Application
EP 10007529 A 20100720

Priority
JP 2009170815 A 20090722

Abstract (en)
[origin: EP2277637A1] A six-high rolling mill includes paired upper and lower work rolls (2) for rolling a strip (1) , paired upper and lower intermediate rolls (3) for supporting the paired upper and lower work rolls, and paired upper and lower back-up rolls (4) for supporting the paired upper and lower intermediate rolls, the six-high rolling mill having no supporting rolls inside and outside the reliable strip width of the work rolls. A similar four-high rolling mill lacks the intermediate rolls. In the six- or four-high rolling mill, the work rolls are driven, and the work rolls have a small diameter, and use a material having a high modulus of longitudinal elasticity, such as a cemented carbide or a ceramic.

IPC 8 full level
B21B 27/02 (2006.01)

CPC (source: EP)
B21B 27/021 (2013.01); **B21B 13/14** (2013.01); **B21B 2013/025** (2013.01); **B21B 2013/028** (2013.01); **B21B 2267/06** (2013.01)

Cited by
EP3130408A1; US10421106B2; EP3130408B1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2277637 A1 20110126; EP 2277637 B1 20130327; CN 101961729 A 20110202; CN 101961729 B 20121226; JP 2011025253 A 20110210; JP 5568261 B2 20140806

DOCDB simple family (application)
EP 10007529 A 20100720; CN 201010234089 A 20100720; JP 2009170815 A 20090722