Title (en)
ROLLING MILL DRIVE

Publication
**EP 0208803 B1 19891123 (DE)**

Application
**EP 85108991 A 19850718**

Priority
EP 85108991 A 19850718

Abstract (en)
[origin: ES8706487A1] A roll block for rolling wire to final gauge in a high speed wire mill with a plurality of roll units alternatingly positioned at right angles to each other and behind each other, which are driven by two roll drive shafts running on both sides of the line of rolls parallel to it, includes a dividing gear unit for driving both drive shafts by a common drive motor. The individual roll units are connected to the roll drive shafts by miter wheel, bevel and/or other gear units. The gear ratios in the dividing gear unit on setting predetermined rotational speed ratios of the roll drive shafts lead to a predetermined series of caliber reductions for which the respective roll block is designed. Other materials and/or roll products require, if the gear ratios and rotational speeds are to be maintained constant, correspondingly changed dividing gear units. Such changes are no longer required when the dividing gear unit is a mechanical or hydraulic gearshift which produces different rotational speeds. A very fast and simple rotational speed change is allowed selectively by gear mechanisms operable by engaging and disengaging clutches between an input drive shaft, intermediate drive shafts and an output drive shaft.

IPC 1-7
B21B 35/12

IPC 8 full level
B21B 35/12 (2006.01); B21B 1/18 (2006.01)

CPC (source: EP US)
B21B 35/12 (2013.01 - EP US); B21B 1/18 (2013.01 - EP US); Y10T 74/19074 (2015.01 - EP US); Y10T 74/19084 (2015.01 - EP US)

Citation (examination)
• DE 2446905 A1 19760408 - MOELLER & NEUMANN GMBH
• Handbuch der Fertigungstechnik, Band 2/1, Umformen, Seite 212, G. Spur, Th. Stöferle

Cited by
US5230236A; WO2018171395A1; DE102018211266A1

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

DOCDB simple family (publication)
**EP 0208803 A1 19870121**; **EP 0208803 B1 19891123**; AT E48097 T1 19891215; DE 3574346 D1 19891228; ES 556232 A0 19870701; ES 8706487 A1 19870701; JP S6221409 A 19870129; US 4807458 A 19890228

DOCDB simple family (application)
**EP 85108991 A 19850718**; AT 85108991 T 19850718; DE 3574346 T 19850718; ES 556232 A 19860619; JP 16687786 A 19860717; US 88653086 A 19860716