

Title (en)
ROLLING MILL

Title (de)
WALZWERK

Title (fr)
LAMINOIR

Publication
EP 3981522 A4 20220629 (EN)

Application
EP 19949862 A 20191025

Priority
JP 2019041943 W 20191025

Abstract (en)
[origin: EP3981522A1] A rolling mill including: a roll that is shifted in an axial direction; a bearing that is shifted in a roll-axis direction along with the roll, and receives a load from the roll; and three or more first cylinders that apply bending force vertically to the bearing to cause the roll to perform bending, in which the bearing and the first cylinders are provided on each a drive side and an work side of the roll, two first cylinders among the first cylinders are provided in the roll-axis direction on a rolled material 5 entry side or exit side, one first cylinder among the first cylinders is provided on a side that is one of the rolled material 5 exit side and entry side, and that is opposite to a side provided with the two first cylinders, and the first cylinder on the opposite side is positioned between the two first cylinders when viewed in a rolling direction.

IPC 8 full level
B21B 31/18 (2006.01); **B21B 29/00** (2006.01); **B21B 37/42** (2006.01)

CPC (source: EP)
B21B 13/142 (2013.01); **B21B 29/00** (2013.01); **B21B 31/18** (2013.01); **B21B 37/42** (2013.01); **B21B 2031/206** (2013.01); **B21B 2269/02** (2013.01); **B21B 2269/12** (2013.01)

Citation (search report)

- [X] EP 0084927 A1 19830803 - HITACHI LTD [JP]
- [A] EP 0283342 A1 19880921 - CLECIM SA [FR]
- See also references of WO 2021079498A1

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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3981522 A1 20220413; **EP 3981522 A4 20220629**; **EP 3981522 B1 20240501**; CN 113950383 A 20220118; CN 113950383 B 20230829; JP 7100416 B2 20220713; JP WO2021079498 A1 20210429; WO 2021079498 A1 20210429

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EP 19949862 A 20191025; CN 201980097298 A 20191025; JP 2019041943 W 20191025; JP 2021553263 A 20191025