

Title (en)  
ROLLING MILL

Title (de)  
WALZWERK

Title (fr)  
LAMINOIR

Publication  
**EP 3205417 A4 20180627 (EN)**

Application  
**EP 14903624 A 20141009**

Priority  
JP 2014077052 W 20141009

Abstract (en)  
[origin: EP3205417A1] In the rolling mill, an orifice (20) (contracted flow part) and a chamber (21) (expanded part) are provided in a hydraulic line (19) for a hydraulic cylinder (17) (hydraulic pressing means). The orifice (20) is disposed more to the hydraulic cylinder (17) side than the chamber (21). The internal diameter of the orifice (20) is set to be 2.5 mm ( $\phi$ ) or greater and 15 - 85% of the internal diameter of the hydraulic line (19). Thus, it is possible to control milling vibration.

IPC 8 full level  
**B21B 31/02** (2006.01); **B21B 13/02** (2006.01); **B21B 31/18** (2006.01); **B21B 37/00** (2006.01)

CPC (source: EP KR)  
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Citation (search report)

- [A] EP 1120172 A1 20010801 - MITSUBISHI HEAVY IND LTD [JP] & JP 2001113308 A 20010424 - MITSUBISHI HEAVY IND LTD
- [A] WO 2008001466 A1 20080103 - MITSUBISHI HITACHI METALS [JP], et al
- See references of WO 2016056097A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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**EP 14903624 A 20141009**; CN 201480082485 A 20141009; JP 2014077052 W 20141009; JP 2016552761 A 20141009; KR 20177004801 A 20141009