

Title (en)
LUBRICATION WITH SPRAY NOZZLES WITH MULTIPLE OIL INLET OPENINGS

Title (de)
SCHMIERUNG MIT SPRITZDÜSEN MIT MEHREREN ÖLEINTRITTSÖFFNUNGEN

Title (fr)
LUBRIFICATION À L'AIDE DE BUSES D'INJECTION DOTÉES DE PLUSIEURS ORIFICES D'ENTRÉE D'HUILE

Publication
EP 3092088 B1 20180502 (DE)

Application
EP 14806199 A 20141118

Priority
• EP 14150400 A 20140108
• EP 2014074844 W 20141118
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Abstract (en)
[origin: WO2015104082A1] During the rolling of a metallic flat rolling stock (1) in a roll stand (2), lubricating oil (5) is sprayed onto the rolling stock (1) and/or at least one roll (3, 4) of the roll stand (2) by means of multiple spray nozzles (7) arranged beside one another. In each case, a mixing chamber (8) of a spray nozzle (7) is fed with a respective quantity of lubricating oil (5) via respective multiple oil inlet openings (9). The respective mixing chamber (8) is fed with compressed air (11) via respectively one air inlet opening (10). By means of the compressed air (11), the lubricating oil (5) is atomized in the respective mixing chamber (8) to form an aerosol and, via respectively at least one nozzle outlet (12), is sprayed onto the rolling stock (1) and/or the at least one roll (3, 4) of the roll stand (2).

IPC 8 full level
B21B 45/02 (2006.01)

CPC (source: EP RU US)
B05B 7/0483 (2013.01 - EP US); **B05B 7/0846** (2013.01 - EP US); **B05B 7/0876** (2013.01 - US); **B05B 13/0278** (2013.01 - US); **B21B 45/02** (2013.01 - RU); **B21B 45/0251** (2013.01 - EP US); **B21B 45/0233** (2013.01 - EP US)

Cited by
EP3733317A1; WO2020221654A1; US11529660B2

Designated contracting state (EPC)
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DOCDB simple family (publication)
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