

Title (en)
ROLLING OF A PRODUCT

Title (de)
WALZEN EINES WALZGUTS

Title (fr)
LAMINAGE D'UN LAMINÉ

Publication
EP 3691805 B1 20211020 (DE)

Application
EP 18739882 A 20180719

Priority
• EP 17194457 A 20171002
• EP 2018069635 W 20180719

Abstract (en)
[origin: WO2019068382A1] The invention relates to a rolling apparatus (1) for rolling a rolled material (3), and to a method for operating the rolling apparatus (1). The rolling apparatus (1) has two rolling stands (5), which each have two working rolls (11) distanced from one another by a nip (15), through which the rolled material (3) can be guided. In a first operating mode, a lubricant mixture, formed of a carrier gas and a lubricant, and coolant are applied to at least one working roll (11) of a first rolling stand (5) and/or to at least one rolled material surface (25, 27) of the rolled material (3). In a second operating mode, a skin pass agent is applied to at least one working roll (11) of the first rolling stand (5), at least one working roll (11) of the second rolling stand (7) and/or at least one rolled material surface (25, 27) of the rolled material (3).

IPC 8 full level
B21B 27/10 (2006.01); **B21B 45/02** (2006.01)

CPC (source: EP RU US)
B21B 27/10 (2013.01 - EP RU US); **B21B 45/02** (2013.01 - RU); **B21B 45/0218** (2013.01 - US); **B21B 45/0251** (2013.01 - EP US); **B21B 45/0218** (2013.01 - EP); **B21B 45/0245** (2013.01 - EP); **B21B 2001/228** (2013.01 - EP US); **B21B 2027/103** (2013.01 - EP US)

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

DOCDB simple family (publication)
EP 3461566 A1 20190403; CN 111148582 A 20200512; CN 111148582 B 20220510; EP 3691805 A1 20200812; EP 3691805 B1 20211020; JP 2020535970 A 20201210; MX 2020003166 A 20200729; RU 2020113071 A 20211108; RU 2020113071 A3 20211130; RU 2767127 C2 20220316; US 2020269296 A1 20200827; WO 2019068382 A1 20190411

DOCDB simple family (application)
EP 17194457 A 20171002; CN 201880064628 A 20180719; EP 18739882 A 20180719; EP 2018069635 W 20180719; JP 2020518753 A 20180719; MX 2020003166 A 20180719; RU 2020113071 A 20180719; US 201816649872 A 20180719