Title (en)

ROLL ASSEMBLY

Title (de)

WALZENANORDNUNG

Title (fr)

ENSEMBLE DE CYLINDRES

Publication

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Application

EP 16717404 A 20160421

Priority

- DE 102015209637 A 20150526
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Abstract (en)

[origin: WO2016188681A1] The invention relates to a roll arrangement (100) for rolling rolling material in a rolling system. The roll arrangement comprises a roll (110) that is rotatably mounted by its roll journal (114) in a bearing bush (130) of a chock (120). A ring gap (180) for receiving a lubricant is formed between the bearing bush and the roll journal. The ring gap is sealed both on the ball side of the chock and on the side of the chock away from the balls, using sealing rings (140, 150). According to the invention, in order to increase the load capacity or the rolling force of a roll arrangement while maintaining or reducing the construction size thereof and without the roll arrangement overheating, discharge channels (132) are provided in a through-flow angular range (β) of the bearing bush (130) for discharging the lubricant out of the ring gap (180) into an oil-receiving chamber (160, 170).

IPC 8 full level

B21B 31/07 (2006.01)

CPC (source: EP KR RU US)

B21B 31/07 (2013.01 - RU); **B21B 31/074** (2013.01 - EP KR US); **B21B 31/078** (2013.01 - EP KR US); B21B 2203/18 (2013.01 - KR)

Cited by

CN1052488C

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

DE 102015209637 A1 20161201; BR 112017025033 A2 20180807; BR 112017025033 B1 20220705; CN 107645973 A 20180130; CN 107645973 B 20190517; EP 3302836 A1 20180411; EP 3302836 B1 20181024; JP 2018513023 A 20180524; JP 6633649 B2 20200122; KR 101990391 B1 20190618; KR 20170122806 A 20171106; PL 3302836 T3 20190329; RU 2675881 C1 20181225; TR 201900282 T4 20190221; TW 201703891 A 20170201; TW I617371 B 20180311; US 10710131 B2 20200714; US 2018297093 A1 20181018; WO 2016188681 A1 20161201

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