

Title (en)
HIGH-PRESSURE ROLLER PRESS

Title (de)
HOCHDRUCK-WALZENPRESSE

Title (fr)
PRESSE À CYLINDRES HAUTE PRESSION

Publication
EP 4106924 A1 20221228 (DE)

Application
EP 20829843 A 20201214

Priority
• EP 2020085954 W 20201214
• DE 102020104526 A 20200220

Abstract (en)
[origin: WO2021164919A1] The invention relates to a high-pressure roller press (1), in particular a material bed roller mill or a compacting machine, comprising two press rollers (3, 4) which are rotatably mounted in a press frame (2) and are driven in opposite directions and between which a pressure zone (5) is formed with a rolling gap (S) arranged at the height of the roller axis (X, X'), the gap width (W) of said rolling gap being variable during the operation of the roller press (1), wherein the pressure zone (5) between the press rollers (3, 4) is delimited at the roller end faces by delimiting plates (8) arranged laterally next to the press rollers (3, 4), and the delimiting plates (8) are secured to the press frame (2) in a movable manner and under the application of a force such that the delimiting plates (8) can be pushed back against the applied force during the operation of the roller press (1). The invention is characterized in that an individual roller (10) is secured to each delimiting plate (8) at the height of the rolling gap (S), said roller being rotatably mounted about the roller axis (Y) of the roller and laterally delimiting the rolling gap (S).

IPC 8 full level
B02C 4/02 (2006.01); **B02C 4/28** (2006.01); **B02C 23/02** (2006.01)

CPC (source: EP US)
B02C 4/02 (2013.01 - EP US); **B02C 4/10** (2013.01 - US); **B02C 4/283** (2013.01 - EP US); **B02C 4/286** (2013.01 - EP US);
B02C 4/32 (2013.01 - US); **B02C 4/34** (2013.01 - US); **B02C 2201/02** (2013.01 - EP US)

Citation (search report)
See references of WO 2021164919A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
DE 102020104526 A1 20210826; **DE 102020104526 B4 20240328**; BR 112022016207 A2 20221004; CL 2022002218 A1 20230310;
CN 115135418 A 20220930; DK 4106924 T3 20240311; EP 4106924 A1 20221228; EP 4106924 B1 20240207; FI 4106924 T3 20240418;
US 2023052046 A1 20230216; WO 2021164919 A1 20210826

DOCDB simple family (application)
DE 102020104526 A 20200220; BR 112022016207 A 20201214; CL 2022002218 A 20220816; CN 202080097096 A 20201214;
DK 20829843 T 20201214; EP 2020085954 W 20201214; EP 20829843 A 20201214; FI 20829843 T 20201214; US 202017791784 A 20201214