

Title (en)

METHOD FOR OPERATING A SYSTEM OF THE IRON AND STEEL INDUSTRY

Title (de)

VERFAHREN ZUM BETREIBEN EINER ANLAGE DER HÜTTENINDUSTRIE

Title (fr)

PROCÉDÉ DE FONCTIONNEMENT D'UN SYSTÈME DE L'INDUSTRIE DU FER ET DE L'ACIER

Publication

EP 4061558 A1 20220928 (DE)

Application

EP 20797756 A 20201028

Priority

- DE 102019217839 A 20191119
- EP 2020080233 W 20201028

Abstract (en)

[origin: WO2021099077A1] The invention relates a method for operating a system of the iron and steel industry for producing a metal product using a separating or forming device. According to the invention, for the metal product to be produced, the actual value of a characteristic variable is calculated over a longitudinal portion of the metal product, wherein the characteristic variable represents the resistance of the metal product in relation to separating or forming processes. The calculated actual value p_{lst} for the characteristic variable p is then compared with a predefined threshold value, which characterises the performance of the separating or forming device provided in the system. The separating or forming only actually takes place when the actual value of the characteristic variable of the metal product is lower than the threshold value, i.e. when the performance of the device is sufficient to separate or form the metal product. If the comparison shows that the actual value of the characteristic variable is greater than the threshold value, according to the invention, before separating or cutting the metal product, said metal product is locally processed in the corresponding longitudinal portion, such that the actual value of the characteristic variable falls below the threshold value.

IPC 8 full level

B22D 11/126 (2006.01); **B21B 1/46** (2006.01); **B22D 11/16** (2006.01); **B22D 11/20** (2006.01)

CPC (source: EP US)

B21B 1/463 (2013.01 - EP US); **B21B 15/0007** (2013.01 - US); **B22D 11/126** (2013.01 - EP US); **B22D 11/16** (2013.01 - EP); **B22D 11/163** (2013.01 - EP US); **B22D 11/20** (2013.01 - EP); **B21B 2015/0014** (2013.01 - EP)

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

DOCDB simple family (publication)

DE 102019217839 A1 20210520; CN 114728329 A 20220708; CN 114728329 B 20240416; EP 4061558 A1 20220928; JP 2023502089 A 20230120; JP 7397193 B2 20231212; US 2023032062 A1 20230202; WO 2021099077 A1 20210527

DOCDB simple family (application)

DE 102019217839 A 20191119; CN 202080079022 A 20201028; EP 2020080233 W 20201028; EP 20797756 A 20201028; JP 2022528259 A 20201028; US 202017778162 A 20201028