

Title (en)
SYSTEM AND METHOD FOR MONITORING MOLD FLUX CONSUMPTION

Title (de)
SYSTEM UND VERFAHREN ZUR ÜBERWACHUNG EINES FORMFLUSSVERBRAUCHS

Title (fr)
SYSTÈME ET PROCÉDÉ POUR SURVEILLER UNE CONSOMMATION DE FLUX DE MOULE

Publication
EP 2760608 A4 20150715 (EN)

Application
EP 12834726 A 20121001

Priority
• US 201161540616 P 20110929
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Abstract (en)
[origin: US2013081777A1] A system for monitoring the consumption of mold flux in a continuous casting apparatus including a transfer apparatus for transferring mold flux from a bulk source to an intermediate hopper; a feed control apparatus for controlling the transfer of mold flux from the transfer apparatus to the intermediate hopper, the feed control apparatus including at least one load cell for weighing the intermediate hopper and the mold flux within the intermediate hopper over a period of time, the feed control apparatus further including a controller receiving input from the at least one load cell and for controlling the operation of the transfer apparatus based on the input; and a delivery apparatus for receiving mold flux from the intermediate hopper and delivering the mold flux to a mold, the delivery apparatus pneumatically feeding the mold flux to the mold.

IPC 8 full level
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CPC (source: EP US)
B22D 11/007 (2013.01 - EP US); **B22D 11/108** (2013.01 - EP US); **B22D 11/165** (2013.01 - EP US)

Citation (search report)
• [A] US 6474398 B1 20021105 - SCHONER FRANK [US], et al
• [A] US 2010017312 A1 20100121 - EVANS MARTIN [US]
• [A] US 2002139507 A1 20021003 - ZINNI MICHAEL [US]
• [A] US 2007034642 A1 20070215 - PENDLETON STEVENS P [US]
• [A] JP H115147 A 19990112 - NIPPON KOKAN KK, et al
• [A] JP H0857614 A 19960305 - SUMITOMO METAL IND
• [A] KR 100951100 B1 20100407 - STOLLBERG & SAMIL CO LTD [KR]
• [A] NAVEAU R ET AL: "Industrial tests of the Hollow Jet Nozzle on the ArcelorMittal Isbergues slab caster", REVUE DE METALLURGIE - CAHIERS D'INFORMATIONS TECHNIQUES, REVUE DE METALLURGIE. PARIS, FR, vol. 105, no. 10, 1 October 2008 (2008-10-01), pages 513 - 519, XP001521781, ISSN: 0035-1563, DOI: 10.1051/METAL:2008067
• [A] SNOWDON B ET AL: "DEVELOPMENTS IN CONTINUOUS FLUX FEED SYSTEMS FOR CONTINUOUS CASTERS", AISE STEEL TECHNOLOGY, AISE, PITTSBURG, PA, US, vol. 77, no. 5, 1 May 2000 (2000-05-01), pages 40 - 42, XP000945938, ISSN: 0021-1559
• See references of WO 2013049807A1

Cited by
EP3907019A1

Designated contracting state (EPC)
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US 2013081777 A1 20130404; EP 2760608 A1 20140806; EP 2760608 A4 20150715; EP 2760608 B1 20190403; ES 2733680 T3 20191202; TR 201909665 T4 20190722; US 2016243610 A1 20160825; WO 2013049807 A1 20130404

DOCDB simple family (application)
US 201213632486 A 20121001; EP 12834726 A 20121001; ES 12834726 T 20121001; TR 201909665 T 20121001; US 2012058285 W 20121001; US 201614991509 A 20160108