

Title (en)
BLOWING LANCE NOZZLE

Title (de)
BLASLANZENDÜSE

Title (fr)
NEZ DE LANCE DE SOUFFLAGE

Publication
EP 3443131 B1 20200408 (FR)

Application
EP 17719524 A 20170413

Priority
• BE 201605263 A 20160415
• EP 2017058973 W 20170413

Abstract (en)
[origin: WO2017178606A1] Blowing lance nozzle comprising a central stirring gas-supply tube (2), an inner coolant-inlet tube (5) ending, at one end thereof facing the bath, in a second front wall, referred to as a separator (7) and having a central opening (8), an outer coolant-outlet tube (10), a heat exchange space (16), and a stirring gas-outlet pipe (17) leading from each opening (4) in the front wall (3), wherein the separator (7) has, at the central opening (8), an edge (18) which is curved in axial cross-section such that a height (H3) is defined between a leading face (19) of said edge (18) and the third front wall (12), and such that, in the heat exchange space (16), a predetermined minimum height (H1) is present on the side facing the central opening (8).

IPC 8 full level
C21C 5/46 (2006.01)

CPC (source: EP KR US)
C21C 5/4606 (2013.01 - EP KR US); **C21C 2005/4626** (2013.01 - EP KR 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)
WO 2017178606 A1 20171019; BE 1023609 B1 20170516; CA 3020361 A1 20171019; CA 3020361 C 20231003; EP 3443131 A1 20190220; EP 3443131 B1 20200408; ES 2794843 T3 20201119; JP 2019513905 A 20190530; JP 6953510 B2 20211027; KR 102330422 B1 20211124; KR 20180129835 A 20181205; PL 3443131 T3 20200921; US 10858714 B2 20201208; US 2019119765 A1 20190425

DOCDB simple family (application)
EP 2017058973 W 20170413; BE 201605263 A 20160415; CA 3020361 A 20170413; EP 17719524 A 20170413; ES 17719524 T 20170413; JP 2019505284 A 20170413; KR 20187030184 A 20170413; PL 17719524 T 20170413; US 201716093608 A 20170413