

Title (en)
BOTTOM-BLOWING PLUG

Title (de)
BODENBLASENDER STECKER

Title (fr)
BOUCHON À SOUFFLAGE INFÉRIEUR

Publication
EP 3231878 A4 20180509 (EN)

Application
EP 15888078 A 20151007

Priority
JP 2015005096 W 20151007

Abstract (en)
[origin: EP3231878A1] A bottom blowing plug to be attached to a large combined blowing converter and having a high durability. This plug has a plurality of through holes at a central portion of an upper surface of a plug body which intersects with a gas blow-in direction. When S_u cm² is area of the upper surface and S_o cm² is area of an opening group portion surrounded by centers of openings of outermost ones of the through holes, $S_o/S_u \geq 0.25$ and $S_u \geq 400$ cm². Density of the openings constituting the group of openings, which is expressed by the number of openings divided by the area S_o of the opening group portion, is 0.6 to 3.9 opening/cm².

IPC 8 full level
C21C 7/00 (2006.01); **C21C 5/34** (2006.01); **C21C 5/48** (2006.01); **C21C 7/072** (2006.01)

CPC (source: EP KR)
C21C 5/34 (2013.01 - EP); **C21C 5/35** (2013.01 - KR); **C21C 5/4653** (2013.01 - KR); **C21C 5/48** (2013.01 - EP); **C21C 7/072** (2013.01 - EP KR)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2017060937A1

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)
EP 3231878 A1 20171018; **EP 3231878 A4 20180509**; **EP 3231878 B1 20181226**; BR 112016022757 A2 20180116;
BR 112016022757 B1 20211214; CN 107075596 A 20170818; CN 107075596 B 20181002; KR 101828140 B1 20180209;
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