

Title (en)  
BOTTOM-BLOWING PLUG

Title (de)  
SPÜLSTEIN

Title (fr)  
BOUCHON À SOUFFLAGE INFÉRIEUR

Publication  
**EP 3231878 A1 20171018 (EN)**

Application  
**EP 15888078 A 20151007**

Priority  
JP 2015005096 W 20151007

Abstract (en)  
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  $S_u$  cm<sup>2</sup> is area of the upper surface and  $S_o$  cm<sup>2</sup> 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  $S_u \leq 400$  cm<sup>2</sup>. 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/cm<sup>2</sup>.

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)

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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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