

Title (en)  
Porous tip for an injection lance for stirring steel by injection.

Title (de)  
Poröser Tauchlanzenkopf zum Blastrühren von Stahl.

Title (fr)  
Nez poreux pour le bullage d'acier.

Publication  
**EP 0099348 A1 19840125 (FR)**

Application  
**EP 83870064 A 19830622**

Priority  
BE 208450 A 19820625

Abstract (en)  
[origin: US4492365A] A porous nozzle for blowing gas through a bath of steel, comprises a body (1) of solid porous material, having on its upper face a bushing (2) for securing the body to the end of a blowing lance. The body is formed with a central cylindrical cavity (3) which is in communication with the interior of the bushing (2) for receiving an inert gas from the lance. A large mesh grill (4) which is embedded in the body, encloses the central cavity (3) so as to reinforce the porous material of the body (1). A metal ring (5) is secured about the bushing (2), and the grill (4) is welded to this metal ring (5). There is an anchoring member (6) welded to the periphery of the bushing (2) so as to fasten more securely the porous material constituting the body (1), this anchoring member being embedded in the porous material. The anchoring member (6) is cylindrical and lies outside of and is concentric with the grill (4). The grill (4) is cylindrical and terminates in an end wall formed by the large mesh grill (4), this end wall being disposed in alignment with the central cavity (3).

Abstract (fr)  
Le corps (1) en matière solide poreuse présente sur sa face supérieure un moyen de fixation (2) pour la fixation du corps à l'extrémité d'une lance de soufflage, le corps précité étant formé avec une cavité centrale cylindrique (3) qui se trouve en communication avec l'intérieur de la buselure (2) pour recevoir un gaz neutre de ladite lance. Un grillage à mailles larges (4) entourant la cavité centrale (3) est noyée dans le corps poreux.

IPC 1-7  
**C21C 5/46**; **C21C 7/072**; **C22B 9/05**; **B22D 1/00**

IPC 8 full level  
**B22D 27/06** (2006.01); **B22D 1/00** (2006.01); **C21C 5/46** (2006.01); **C21C 7/072** (2006.01); **C22B 9/05** (2006.01)

CPC (source: EP US)  
**B22D 1/005** (2013.01 - EP US); **C21C 5/4606** (2013.01 - EP US); **C21C 5/4613** (2013.01 - EP US)

Citation (search report)

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AT DE FR GB IT LU NL SE

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DOCDB simple family (application)  
**EP 83870064 A 19830622**; AT 83870064 T 19830622; BE 208450 A 19820625; BR 8303391 A 19830624; CA 431111 A 19830623; DE 3372639 T 19830622; ES 285245 U 19830622; JP 11366983 A 19830625; US 50816583 A 19830627; ZA 834666 A 19830627