

Title (en)  
Refractory nozzle for a metallurgical vessel

Title (de)  
Feuerfester Ausguss für ein metallurgisches Gefäß

Title (fr)  
Buse réfractaire pour récipient métallurgique

Publication  
**EP 1332813 A3 20031126 (DE)**

Application  
**EP 02027793 A 20021212**

Priority  
DE 10204305 A 20020201

Abstract (en)  
[origin: EP1332813A2] Refractory outlet comprises: an opening (1) having an upper and a lower end; an inner wall laterally enclosing the opening; and a heater (2) and/or a thermally insulating material which dissolves or combusts on contact with liquid steel. Preferred Features: The thermally insulating material is cardboard or a material with a melting point lying below the melting point of the steel, or has fibers and is applied by spraying. The heater is made from steel.

IPC 1-7  
**B22D 41/60**

IPC 8 full level  
**B22D 41/50** (2006.01); **B22D 41/60** (2006.01)

CPC (source: EP KR US)  
**B22D 41/50** (2013.01 - KR); **B22D 41/60** (2013.01 - EP US)

Citation (search report)

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DOCDB simple family (publication)  
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DOCDB simple family (application)  
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