

Title (en)  
MOLTEN METAL TRANSFER CHANNELS

Publication  
**EP 0076577 B1 19860507 (EN)**

Application  
**EP 82304772 A 19820910**

Priority  
GB 8128419 A 19810919

Abstract (en)  
[origin: EP0076577A1] A transfer channel which in use is contacted by molten ferrous metal has a protective inner replaceable lining (5,6) of bonded refractory, heat-insulating material which comprises at least 75% by weight of particulate refractory material. The inner replaceable lining (5,6) is reusable for a plurality of molten ferrous metal transfers. The lining (5,6) can be a plurality of pre-formed slabs (5,6) or one or more pre-formed, self-supporting essentially U-shaped lining sections. The lined channel can be used to transfer molten metal e.g. steel from a vessel e.g. a furnace to another vessel e.g. a ladle.

IPC 1-7  
**C21B 7/14; F27D 1/16**

IPC 8 full level  
**B22D 35/00** (2006.01); **C21B 7/14** (2006.01); **F27D 1/14** (2006.01); **F27D 1/16** (2006.01); **F27D 3/14** (2006.01); **F27D 1/00** (2006.01)

CPC (source: EP KR)  
**C21B 7/04** (2013.01 - KR); **C21B 7/14** (2013.01 - EP); **F27D 1/141** (2013.01 - EP); **F27D 1/16** (2013.01 - EP); **F27D 1/0006** (2013.01 - EP); **F27D 2001/005** (2013.01 - EP)

Citation (examination)  
Neue Hütte, Vol.1, Nr.6, Mai 1956, Leipzig, E.Kuntzsch et al. "Neuartige Zustellung von Elektroöfen-Auslauftrinnen "

Cited by  
EP1111320A1; CN114130988A; EP1088611A1; CN102639950A; CN107142345A; CN110479971A; EP0926248A1; NL1007881C2; US6123894A; US9193541B2; WO2012161636A1; WO2011069251A1; WO2021102596A1; US9498821B2; US10274255B2

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0076577 A1 19830413; EP 0076577 B1 19860507**; AR 230795 A1 19840731; AT E19657 T1 19860515; AU 548095 B2 19851121; AU 8871682 A 19830616; BR 8205469 A 19830823; DE 3271012 D1 19860612; ES 515790 A0 19831101; ES 8400490 A1 19831101; IN 158955 B 19870228; JP S5866782 A 19830421; KR 840001636 A 19840516; MX 159623 A 19890719; ZA 826661 B 19831026

DOCDB simple family (application)  
**EP 82304772 A 19820910**; AR 29067682 A 19820916; AT 82304772 T 19820910; AU 8871682 A 19820927; BR 8205469 A 19820917; DE 3271012 T 19820910; ES 515790 A 19820917; IN 10CA1982 A 19820918; JP 16304582 A 19820917; KR 820004225 A 19820918; MX 19442582 A 19820915; ZA 826661 A 19820910