

Title (en)  
Pouring tubes.

Title (de)  
Giessrohre.

Title (fr)  
Busettes de coulée.

Publication  
**EP 0178053 A1 19860416 (EN)**

Application  
**EP 85305872 A 19850819**

Priority  
GB 8422486 A 19840906

Abstract (en)  
The pouring tube comprises a tubular structure (1, 6) formed from refractory, heat-insulating material encased by a sheet metal casing (2, 7). The metal casing (2, 7) is protected from attack by molten metal and/or accompanying slag by a protective sleeve (4, 9). The sleeve (4, 9) and the casing (2, 7) are located in a spaced apart relationship over at least a part of the length of the sleeve to allow for expansion of the tube without fracture of the sleeve.

IPC 1-7  
**B22D 11/10**

IPC 8 full level  
**B22D 11/10** (2006.01); **B22D 41/50** (2006.01)

CPC (source: EP)  
**B22D 41/505** (2013.01)

Citation (search report)  
• [A] FR 1493389 A 19670825 - UNITED STATES STEEL CORP  
• [A] WO 8201836 A1 19820610 - DAUSSAN & CO [FR], et al  
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• [A] EP 0102292 A2 19840307 - DAUSSAN & CO [FR]  
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