

Title (en)
Submerged pouring.

Title (de)
Tauchgiessen.

Title (fr)
Coulée submergée.

Publication
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Application
EP 89306123 A 19890616

Priority
GB 8815140 A 19880624

Abstract (en)
Metal teeming apparatus comprises a molten metal supply vessel or ladle (10) a receiving vessel or tundish (18) and a submerged pouring tube (16) fitted to an outlet (14) of a gate valve (12). The pouring tube (16) has a venting duct (25) for exhausting entrapped air from the tube when the valve (12) is first opened to commence a teem. The duct (25) is generally U-shaped. It has one limb (26) extending out of the discharge end (20) of the tube (16) and another limb (27) extending alongside the tube to a position above the metal (M) in vessel (18). A downturned part of the limb (27) has an air outlet while the limb (26) has air inlets (36) in its wall. Anchors (40) which secure the limb (26) in the pouring tube (16) protect the inlets (36) from ingress of molten metal at the onset of teeming.

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IPC 8 full level
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CPC (source: EP)
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Citation (search report)
• [A] FR 485095 A 19171211 - DRAGOMIR PALYITCH [FR]
• [A] US 4708326 A 19871124 - BROCKMEYER JERRY W [US], et al
• [A] US 4546812 A 19851015 - TIEGEL RALPH G [US]
• [A] GB 100044 A 19170108 - MELLEN GRENVILLE [US]
• [A] GB 551372 A 19430219 - JOHN HUGH VAUGHAN WILLIAMS

Designated contracting state (EPC)
ES

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