

Title (en)

PROCESS FOR PREVENTING THE FORMATION OF FLUE GASES IN METALLURGICAL PROCESSES AND DURING THE TRANSPORT OF MOLTEN METAL FROM A METALLURGICAL VESSEL TO CASTING VESSELS AND DEVICE FOR TRANSPORTING MOLTEN METALS FROM A METALLURGICAL FURNACE TO A CASTING VESSEL

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Application

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Abstract (en)

[origin: WO9008842A1] A transport and drainage channel (14) is installed in at least one metal notch (11) of a metallurgical furnace (10). A transfer station (17, 18, 19) comprises a swivelling or tilting channel (28, 29, 30). The molten metal flows from the drainage channel (14) through a distribution system into discharge orifices (33, 34) from which it runs into a preferably mobile casting vessel (20, 21). The drainage channels (14) for the molten metal are covered by covering caps (22, 23, 24) starting from the metal notch (11) of the metallurgical furnace (10), the transfer station (17, 18, 19) is shielded in an essentially gastight manner, the corresponding internal cavities are flushed with an inert gas and the jet of molten metal discharged through the discharge orifice (11, 12, 13) is shielded by an additional essentially annular envelope of compressed inert gas which prevents air from entering through the discharge orifice (11, 12, 13) and the casting vessel. The formation of flue gas is thus effectively prevented.

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