

Title (en)
TUNDISH STOPPER ROD FOR CONTINUOUS MOLTEN METAL CASTING

Title (de)
STOPFENSTANGE FÜR GIESSPFANNE ZUM STRANGGIESSEN VON GESCHMOLZENEM METALL

Title (fr)
QUENOUILLE DE PANIER POUR COULEE CONTINUE DE METAL FONDU

Publication
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Application
EP 06726837 A 20060420

Priority
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Abstract (en)
[origin: WO2006117508A1] Stopper rod (22) for the continuous casting of molten metal have a stopper rod body (22-3), and a stopper rod tip (22-1) at a lower end of the stopper rod body. The stopper rod tip defines a frustoconically shaped exterior surface (22-1a) which terminates in a recessed nose (22-1b). The recessed nose has most preferably a curvilinear surface (e.g., a spherical segment), but non-curvilinear surfaces (e.g., prismatic, pyramidal, triangular, and quadrangular surfaces) may alternatively be employed. The frustoconically shaped exterior surface (22-1a) of the stopper rod tip most preferably forms an angle with respect to a horizontal plane which is sufficiently great so as to increase the velocity of the flowing molten metal to reduce the boundary layer thickness thereof adjacent the nozzle and stopper rod tip surfaces so as to minimize the deposition of inclusions thereon. Preferably the angle θ is greater than 70° and less than 85°.

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