

Title (en)
NOZZLE FOR DISCHARGING MOLTEN METAL

Title (de)
DÜSE ZUR ENTLADUNG VON FLÜSSIGEM MATERIAL

Title (fr)
BUSE POUR LA DÉCHARGE DE MÉTAL FONDU

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Application
EP 10816942 A 20100602

Priority
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• JP 2010059308 W 20100602

Abstract (en)
Provided is a molten metal discharge nozzle which has a bore configuration capable of creating a low-energy loss and smooth (stabilized) molten metal flow to suppress the occurrence of an adhesion matter. In the molten metal discharge nozzle, a radius $r(0)$ of an upper end (12) of a bore (11) thereof is 1.5 times or more a radius $r(L)$ of a lower end (13) of the bore, and a cross-sectional shape of a bore wall surface 14 taken along an axis of the bore has no bend point. Further, a radius $r(z)$ of the bore at a position downwardly away from the upper end of the bore by a distance z (where L is an axial length of the bore) is in a range between $[\{L/(r(0)/r(L))^{1.5} - 1\} + L] / [\{L/(r(0)/r(L))^{1.5} - 1\} + z]$ $1/1.5 \times r(L)$ and $[\{L/(r(0)/r(L))^{6} - 1\} + L] / [\{L/(r(0)/r(L))^{6} - 1\} + z]$ $1/6 \times r(L)$.

IPC 8 full level
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