

Title (en)
IMMERSION NOZZLE FOR CONTINUOUS CASTING OF STEEL

Title (de)
TAUCHDÜSE FÜR DAS STRANGGIESSEN

Title (fr)
TUYERE D'IMMERSION POUR COULEE EN CONTINU D'ACIER

Publication
EP 1053808 A4 20011219 (EN)

Application
EP 99900164 A 19990112

Priority

- JP 9900058 W 19990112
- JP 614398 A 19980114
- JP 13223998 A 19980514

Abstract (en)
[origin: WO9936213A1] An immersion nozzle for continuous casting of steel comprising, at the entire portion thereof, or at least a part of an inner hole portion thereof in contact with a molten steel, a spinel-periclase-C type refractory, particularly a spinel-periclase-graphite type refractory consisting of 50 to 95 wt% of spinel, 0 to 20 wt% of periclase, 5 to 30 wt% of graphite and not greater than 3 wt% of unavoidable impurities. The inner hole portion (1) and a portion (2) around its discharge port can be made of the spinel-periclase-graphite type refractory, a nozzle main body (10) can be made of an AG type refractory and a powder line portion (3) can be made of a ZrO₂-C type refractory.

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B22D 11/10; **B22D 41/54**

IPC 8 full level
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CPC (source: EP)
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Citation (search report)

- [X] DATABASE WPI Section Ch Week 198645, Derwent World Patents Index; Class L02, AN 1986-294412, XP002178497
- [A] DATABASE WPI Section Ch Week 197627, Derwent World Patents Index; Class L02, AN 1976-51331X, XP002178498
- See references of WO 9936213A1

Cited by
US7575135B2

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