

Title (en)
NOZZLE FOR CONTINUOUS CASTING

Title (de)
DÜSE ZUM STRANGGIESSEN

Title (fr)
BUSE POUR COULÉE CONTINUE

Publication
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Application
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Priority
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Abstract (en)
[origin: US2009090481A1] Disclosed is a continuous casting nozzle, which comprises a layer formed to have high functions, such as high corrosion resistance and high anti-deposition capability, and disposed on the side of an inner bore thereof to serve as an inner bore-side layer, so as to enhance durability, wherein the continuous casting nozzle is capable of preventing expansion cracking of an outer periphery-side layer serving as a nozzle body thereof, due to a difference in thermal expansion between respective compositions of the inner bore-side layer and the outer periphery-side layer, while preventing peel-off of the inner bore-side layer during casting. The continuous casting nozzle has a structure in which respective opposed boundary surfaces between the inner bore-side layer 2 and an intermediate layer 4 and between the intermediate layer 4 and the outer periphery-side layer 3, are in direct contact with each other, wherein a bonding strength between the intermediate layer and each of the inner bore-side layer and the outer periphery-side layer adjacent to the intermediate layer is in the range of 0.01 to 1.5 MPa, as measured in a non-oxidation atmosphere at 1000° C., and a compressive rate (%) of the intermediate layer in a non-oxidation atmosphere at 1000° C. and under a pressure of 2.5 MPa is in the range of 10 to 80%.

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