

Title (en)

CORED WIRE FOR REDUCING DEGREE OF SUPERHEAT OF MOLTEN STEEL AND USE METHOD THEREOF

Title (de)

FÜLLDRAHT ZUR VERRINGERUNG DES ÜBERHITZUNGSGRADES VON GESCHMOLZENEM STAHL UND VERFAHREN ZU SEINER VERWENDUNG

Title (fr)

FIL FOURRÉ POUR RÉDUIRE LE DEGRÉ DE SURCHAUFFE DE L'ACIER FONDU ET SON PROCÉDÉ D'UTILISATION

Publication

EP 3821998 A1 20210519 (EN)

Application

EP 20154662 A 20200130

Priority

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Abstract (en)

The invention relates to the technical field of steel casting, and particularly relates to a cored wire for reducing the degree of superheat of molten steel and a use method thereof. A cored wire provided by the invention comprises a core inorganic heat absorbing material and an external metal shell. The cored wire is fed into molten steel in a mold by a wire feeder during a casting process. A metal shell of the cored wire is gradually melted and joint to the molten steel (without affecting composition of molten steel), and meanwhile, the core inorganic material melts by absorbing latent heat and floats up to a surface, so as to reduce the degree of superheat of the molten steel, promote a cooling rate of molten steel, and finally improve the quality of castings.

IPC 8 full level

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CPC (source: CN EP)

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Citation (search report)

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