

Title (en)

Process for continuous casting of metals using a hot top, and method used therefor.

Title (de)

Stranggiessverfahren mit Kokillen-Aufsatz und Kokille zur Anwendung.

Title (fr)

Procédé de coulée continue en charge des métaux et lingotière pour sa mise en oeuvre.

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Application

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Priority

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Abstract (en)

The (ingot) mould according to the invention is provided with a thermo-insulating hot top (2) made from rigid refractory material implanted on the tube element made from chilled copper (1) and means (8, 18, 12, 12, 13, 10) are provided for injecting, through the wall, a pressurised gas which emerges in the casting space 3 in the form of anular jets (streams) which cut through any solidification skin (crust) already formed by the cast metal (4) in contact with the refractory hot top (2). The invention makes it possible to distance the meniscus (7) from the solidification front of the cast metal in the copper element by eliminating the risks of incipient solidification between the two. <IMAGE>

Abstract (fr)

La lingotière selon l'invention est pourvue d'une rehausse thermoisolante (2) en matériau réfractaire rigide implantée sur l'élément tubulaire en cuivre refroidi (1) et des moyens (8, 18, 12, 12, 13, 10) sont prévus pour injecter au travers de la paroi un gaz sous pression qui débouche dans l'espace de coulée 3 sous forme de jets annulaires cisaillant l'éventuelle croûte de solidification déjà formée par le métal coulé (4) au contact de la rehausse réfractaire (2). L'invention permet d'éloigner le ménisque (7) du début de la solidification du métal coulé dans l'élément en cuivre, en supprimant les risques de solidification débutante entre les deux. <IMAGE>

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CPC (source: EP)

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Citation (search report)

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