

Title (en)
Tubular continuous casting mould for metals

Title (de)
Rohrförmige Stranggusskokille für Metalle

Title (fr)
Lingotière tubulaire de coulée continue en charge des métaux

Publication
EP 0993890 A1 20000419 (FR)

Application
EP 99402210 A 19990909

Priority
FR 9811915 A 19980924

Abstract (en)
[origin: KR20000023427A] PURPOSE: A mold design for a hot-top continuous casting device is provided to suit to add a sound or a vibration of supersonic waves to the mold, and to have the reliability needed to cast in many numbers. CONSTITUTION: A mold is equipped a side projection(18) located a metal unit(1) under an upper part(19) and integrally produced with the metal unit(1). A cooling channel(20) is processed between the upper part(19) and the projection(18), and closed by a collar(21). The collar is fixed in the metal unit(1) with two welding points generated by an electronic line. One of the welding points(22) is made in the upper part(19) of the metal unit(1), that is on a point processed the channel(20). The other welding point(23) is made on the upper face of the projection(18). The welding points(22,23) are received lower thermal and mechanical tension than existing welding points. And closer welding point(22) in a metal of high temperature is reduced the enduring mechanical tension by separating from emitters(25,26) more or less.

Abstract (fr)
L'invention a pour objet une lingotière tubulaire de coulée continue en charge des métaux, ayant une partie métallique refroidie (1) destinée à être munie d'émetteurs sonores ou ultrasonores (14, 15) lui imposant des vibrations et à être surmontée d'une rehausse (8) en matériau réfractaire, la portion terminale supérieure de ladite partie métallique (1) étant refroidie par circulation d'eau dans un canal (20) ménagé sur sa face externe et obturé latéralement par une collerette (21) qui entoure ladite portion terminale supérieure et lui est solidarisée par soudage, caractérisée en ce que ladite partie métallique (1) comporte en dessous de sa portion terminale supérieure une excroissance latérale (18) qui lui est intégrée de fabrication, et sur la face supérieure (24) de laquelle ladite collerette (21) est fixée par soudage. <IMAGE>

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IPC 8 full level
B22D 11/04 (2006.01); **B22D 11/043** (2006.01); **B22D 11/053** (2006.01)

CPC (source: EP KR)
B22D 11/04 (2013.01 - KR); **B22D 11/0401** (2013.01 - EP)

Citation (search report)

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- [A] PATENT ABSTRACTS OF JAPAN vol. 009, no. 055 (M - 362) 9 March 1985 (1985-03-09)

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