

Title (en)

Method and device for the continuous casting of a metal.

Title (de)

Verfahren und Vorrichtung zum Stranggiessen eines Metalls.

Title (fr)

Procédé et installation pour la coulée continue d'un métal.

Publication

**EP 0452294 A2 19911016 (FR)**

Application

**EP 91870056 A 19910408**

Priority

LU 87722 A 19900411

Abstract (en)

The present method for the continuous casting of a metal comprises the following successive operations: a) the temperature of the metal is lowered to a value between  $T_f$  and  $(T_f + 20 \text{ DEG C})$  before and/or during casting of the said metal in the ingot mould,  $T_f$  being the liquidus temperature of the said metal, for example by forming a hollow jet flowing along a cooled conduit; b) the cast product is subjected to an intense cooling by means of a continuous layer of cooling liquid under pressure formed at the surface of the said cast product; and c) a moderate cooling is then applied to the said cast product by means of a cooling liquid preferably coming from the preceding intense cooling. In this way, continuously cast products are obtained which have no internal or surface cracks. <IMAGE>

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