

Title (en)  
METHOD FOR AGITATING STEEL IN A LADLE

Title (de)  
VERFAHREN ZUM BEWEGEN VON STAHL IN EINER PFANNE

Title (fr)  
PROCEDE POUR AGITER L'ACIER DANS UNE POCHE DE COULEE

Publication  
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Application  
**EP 02739004 A 20020418**

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Abstract (en)  
The invention relates to steel processing in a ladle used for ferrous metallurgy. The inventive method for agitating steel in a ladle consists in blowing steel from the bottom with gas or a gas-powder mixture through blowing units. At least one blowing unit is shifted with respect to the vertical axis of the ladle toward the wall thereof. During the blowing, the ladle is rotated around the vertical axis thereof in such a way that the direction of rotation is periodically changed to the opposite direction. When the ladle is turned at an angle of 360 DEG , the blowing is carried out through the blowing units disposed on the radius of the bottom of the ladle. When the ladle is turned at an angle equal to or greater than 180 DEG , the blowing is carried out through the blowing units disposed on the diameter of the bottom of the ladle. When the ladle is turned at an angle equal or less than 90 DEG , the blowing is carried out through the blowing units disposed on the mutually perpendicular diameters of the bottom of the ladle. When the ladle is turned at an angle alpha equal or greater than 360 DEG , the blowing is carried out through the blowing units disposed in the sector of the ladle having the central angle alpha . <IMAGE>

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