

Title (en)

Process for manufacturing composite strips by continuous casting and the strips obtained by the process.

Title (de)

Verfahren zur Herstellung plattierter Bänder durch Stranggiessen und die so hergestellten Bänder.

Title (fr)

Procédé de fabrication de bandes composites par coulée continue et bandes ainsi obtenues.

Publication

EP 0007282 A1 19800123 (FR)

Application

EP 79420028 A 19790608

Priority

FR 7818926 A 19780619

Abstract (en)

[origin: ES481645A1] A method of plating a strip of a metal having a melting point and a mechanical resistance which are higher than those of aluminum. The metal strip which is to be plated onto the aluminum strip is interposed between the roll or rolls and the aluminum strip on at least one face of an aluminum strip by continuous casting between rolls and by use of a nozzle. The strip of plating metal contacts the roll at least over the portion between the generatrix closest to the end of the nozzle and the generatrix situated in the plane of the roll axes. The clearance between the nozzle and the plating metal strip applied to the roll is less than 1 mm and the elongation of the plating metal strip is greater than 1% and less than that of the solidified aluminum. The present method is used in the production of composite aluminum-copper or aluminum-stainless steel strips.

Abstract (fr)

Procédé de placage d'une bande d'un métal ayant un point de fusion et une résistance mécanique plus élevés que l'aluminium sur une face au moins d'une bande d'aluminium par coulée continue entre cylindres au moyen d'une busette, la bande à plaquer étant interposée entre le ou les cylindres et l'aluminium coulé. La bande de métal de placage est au contact du cylindre au moins sur la portion entre la génératrice la plus proche de l'extrémité de la busette et celle située dans le plan des axes des cylindres. Le jeu entre la busette et la bande de placage appliquée contre le cylindre est inférieur à 1 mm et l'allongement du métal de placage est supérieur à 1 % et inférieur à celui de l'aluminium solidifié. Application à la fabrication de bandes composites aluminium - cuivre ou aluminium-acier inoxydable.

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Citation (search report)

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Cited by

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