

Title (en)
PROCESS AND DEVICE FOR PRODUCING METAL STRIP AND LAMINATES

Title (de)
VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON BÄNDERN UND VERBUNDKÖRPERN AUS METALL

Title (fr)
PROCEDE ET DISPOSITIF POUR LA FABRICATION DE RUBANS ET DE PIECES COMPOSEES EN METAL

Publication
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Application
EP 92910004 A 19920518

Priority
CH 9200096 W 19920518

Abstract (en)
[origin: WO9323187A1] A stream (6) of superheated molten metal is deposited from a container (9), in a consolidated form by means of a pouring nozzle or separated into drops by a gaseous medium, at a casting point (5) on the inner surface of a wound strip or laminate rotating in and together with a mould (1). An initially liquid metal film (8) is thus produced to which a fluid coolant, preferably a deep-cooled liquefied gas such as argon or nitrogen, is applied from a cooling nozzle (12) at a cooling station (13) staggered in the direction of rotation in relation to the casting point (5), by means of which a substantial proportion of the superheating and melting heat of the metal film (8) is largely dissipated by evaporation. Depending on the residual heat remaining after the cooling cycle, the metal film (8) remains either insulated from the previously applied innermost metal layer (7), thus producing a strip, or melts with it, thus forming a substantially rotation-symmetrical laminate.

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