

Title (en)
METHOD AND PRODUCTION LINE FOR PRODUCING FOAM ALUMINIUM SHEETS

Title (de)
VERFAHREN UND FERTIGUNGSSTRASSE ZUR HERSTELLUNG VON SCHAUMALUMINIUMBLECHEN

Title (fr)
PROCÉDÉ ET LIGNE DE FABRICATION DE FEUILLES D'ALUMINIUM EXPANSÉ

Publication
EP 2286943 A4 20131023 (EN)

Application
EP 08843264 A 20081008

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Abstract (en)
[origin: EP2286943A1] The invention relates to powder metallurgy, in particular to foam aluminum production. The invention method involves filling of a powder mixture into a sheath, heating it in a through-type furnace (6) to a temperature not less than 500°C, the hot compaction thereof, the cutting of the compacted rolled billet into sheet billets and the high-temperature heat treatment for a foaming process. The sheath is formed from two uniformly supplied coiled strips. The lower part of the sheath with a base and flanged walls is formed from the first coiled strip (1). Afterwards, the second coiled strip (4) is superimposed upon the lower part of the sheath and the thus assembled billet is sent for canting the flanged sections. The inventive production line comprises a device for supplying the powder mixture for heating, the through-type furnace (6), a heated chute with rollers, a stand for heat compacting of the powder mixture rolled billets, the shears (9) for cutting billets to length, an outgoing roller table (10) and a sheet billet-foaming furnace. The production line is also provided with a device for filling the powder mixture into the sheath. Said invention makes it possible to produce quality billets with uniform mechanical characteristics.

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Citation (search report)
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• [A] WO 9429490 A1 19941222 - BAYERISCHE MOTOREN WERKE AG [DE], et al
• See references of WO 2009054749A1

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