

Title (en)
PROCESS AND DEVICE FOR MAKING SEMI-FINISHED PRODUCTS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR ERZEUGUNG VON HALBZEUG

Title (fr)
PROCEDE ET DISPOSITIF PERMETTANT DE FABRIQUER DES PRODUITS SEMI-FINIS

Publication
EP 0702608 A1 19960327 (DE)

Application
EP 94916903 A 19940603

Priority
• DE 9400656 W 19940603
• DE 4319569 A 19930608

Abstract (en)
[origin: DE4319569C1] A cleaned metal profile with low heat content is continuously fed, from bottom to top, through a bath (1) of molten metal of the same kind. Dependent on the height of the bath, the speed of the profile is adjusted so that its thickness is increased at least three-fold through depositions on its surface. After leaving the bath in an inert atmos., the strip passes through smoothing rolls (4) - whose vertical position is adjustable - when the average temp. T of the added metal satisfies the relation $T=T_1+a(T_2-T_1)$, where T₁ is the solidus temp., T₂ is the liquidus temp. and a is a factor varying from 0.1-0.8. The factor a lies within the range of values from 0.2-0.4. The thickness reduction of the strip by smoothing varies from 5-15% while the final-to-initial thickness ratio of the strip lies in the range 3-7. The vertical position of the smoothing rolls (4) is adjustable by electro-mechanical or hydraulic means. The height adjustment installation includes at least one device for measuring the surface temp. of the strip. USE/ADVANTAGE - For mfr. of thin strips. The thickness tolerance of strips (with a width-to-thickness ratio in excess of 60) is securely maintained within 2%.

IPC 1-7
B22D 11/00; **C23C 2/00**

IPC 8 full level
B22D 11/00 (2006.01); **B22D 11/12** (2006.01); **B22D 23/04** (2006.01); **C23C 2/00** (2006.01); **C23C 2/40** (2006.01)

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