

Title (en)

PROCESS FOR THE HOT EXTRUSION OF METAL WITH THE ACTIVE ASSISTANCE OF FRICTION FORCES, AND A HYDRAULIC EXTRUSION PRESS FOR CARRYING OUT THIS PROCESS

Title (de)

VERFAHREN ZUM WARMEN STRANGPRESSEN VON METALL MIT AKTIVER HILFE VON REIBUNGSKRÄFTEN UND HYDRAULISCHE STRANGPRESSE ZUR DURCHFÜHRUNG DIESES VERFAHRENS

Title (fr)

PROCEDE D'EXTRUSION DE METAL A CHAUD AVEC L'AIDE ACTIVE DE FORCES DE FRICTION, ET PRESSE D'EXTRUSION HYDRAULIQUE PREVUE A CET EFFET

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Application

EP 94906412 A 19931215

Priority

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Abstract (en)

Process for the hot extrusion of metal with the active assistance of friction forces, consisting in that a preheated billet (1) is placed in a container (3) and thereafter extruded through a die (5), which determines the shape and geometrical dimensions of the finished article, with the aid of a ram (4), while moving said container and ram simultaneously, and the speed of movement VC of the container (3) exceeds the speed of movement VR of the ram (4) by approximately 1.05-1.3 times. A hydraulic extrusion press comprising a crosspiece (8) on which there is mounted an auxiliary cylinder whose inner space (20) is hydraulically connected to the inner space (19) of the stabilizing cylinders mounted on the rear cross beam (12) of the press, while the ram (4) is mounted on the plunger (22) of the auxiliary cylinder and enters the container (3) with the billet (1), and the die (5) with the hollow ram (6) is mounted on the other side of the container (3), while the hollow ram is rigidly attached to the front cross beam (11) of the press. <IMAGE>

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IPC 8 full level

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