

Title (en)
EXTRUSION PRESS DIE ASSEMBLY

Title (de)
STRANGPRESSENMATRIZENEINHEIT

Title (fr)
ENSEMBLE MATRICE DE PRESSE À EXTRUSION

Publication
EP 2906371 A1 20150819 (EN)

Application
EP 13845959 A 20131011

Priority
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Abstract (en)
[origin: US2014102159A1] Systems, devices, and methods for continuous extrusion of material billets are provided. A die assembly for press extrusion of a material includes a plurality of die plates forming a die body. The die body has an entrance and an exit having a diameter smaller than the entrance, with a tapered surface between the entrance and the exit. Each die plate has a center bore with a tapered interior surface, and the interior surfaces form the tapered surface that extends from the entrance to the exit. A base is coupled to the die body, and rotation of the base causes rotation of the die body. A billet pressed into the die body is heated by friction between the interior surface and an outer surface of the billet. The billet is heated to a deformable temperature and is extruded into a tube product as the billet is pressed from the entrance to the exit of the die body.

IPC 8 full level
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