

Title (en)
PROCESS FOR MANUFACTURING A STEEL STRIP

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Application
EP 88104297 A 19880318

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Abstract (en)
[origin: EP0286862A1] The invention relates to a process and an installation for manufacturing a steel strip with a thickness of 2 to 25 mm. A steel strand (10) with a thickness of 40 to 50 mm is cast in an oscillating open die (2) at a rate of 5 to 20 m/min. The steel strand emerging from the open die, which is not yet completely solidified, is compressed to such an extent that the inner walls of the already solidified strand shell weld together. After the cooling of the steel strand, the thickness of which has been reduced in this way, to 1000 to 1200 DEG C, the strip is rolled out in at least one pass with a degree of deformation of 5 to 85%. <IMAGE>

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Citation (examination)
Sonderdruck aus Stahl und Eisen, 1986, "Die Erzeugung von Vorband auf der Versuchsgiessanlage Buschhütten", no. 23, S. 27/33

Cited by
EP0614714A1; EP1108484A1; DE19745445C1; EP0344095A3; DE3818077A1; EP0353402A1; AU620419B2; EP0603598A1; DE4243857C1; US5479982A; DE3840812A1; EP0611610A1; US5810069A; EP0853987A3; EP0535368A1; US5339887A; CN1039290C; EP0384151A1; DE10058205B4; DE10058205C5; US6533024B2; DE102008020412A1; US7909085B2; DE102008003222A1; WO9000456A1; WO2007039483A1; DE102009037278A1; WO2011018217A2; US8365806B2

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