

Title (en)
DEVICE FOR THE PRODUCTION OF A LAMINAR WATER CURTAIN

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EP 0141036 A3 19850918 (DE)

Application
EP 84108053 A 19840710

Priority
DE 3334251 A 19830922

Abstract (en)
[origin: EP0141036A2] The device is intended for producing a water curtain for cooling metal sheets and strips which are moved through the said curtain. It consists of a water box having a slotted nozzle which extends transversely to the direction of movement and over the entire width of the material to be cooled and whose side walls, which delimit the nozzle gap, guide the cooling water which exits in free fall with laminar flow. It has been found, in particular in the case of large curtain widths and high heights of fall, that contractions of the water curtain occur which lead to the breaking apart of the curtain. In order to achieve a laminar water curtain, the invention proposes that the side walls (5, 6) of the slotted nozzle be of convex curvature transversely with respect to the direction of flow of the cooling water, at least in the region of the outlet opening (10). <IMAGE>

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IPC 8 full level
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CPC (source: EP)
B05C 5/005 (2013.01); **B21B 45/0233** (2013.01)

Citation (search report)
• [AD] DE 2804982 A1 19780810 - DAVY LOEWY LTD
• [A] DE 2235063 B2 19760506
• [A] GB 2113131 A 19830803 - CENTRE RECH METALLURGIQUE

Cited by
EP0235015A1; US4974424A; CN107790339A; EP3659436A1

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DE FR GB IT

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