

Title (en)  
METHOD AND APPARATUS FOR GALVANIZING RIBBED TUBES

Publication  
**EP 0142082 A3 19850821 (DE)**

Application  
**EP 84112869 A 19841025**

Priority  
DE 3340813 A 19831111

Abstract (en)  
[origin: EP0142082A2] 1. Apparatus for galvanising ribbed tubes, the apparatus having components which are arranged in line, one behind the other, at one treatment level, which are connected by an automatically operating conveyor device with horizontal and vertical support, guide and driving rolls, or, in the preheating area, with a conveyor chain device and which comprises a feed facility (1), a degreasing facility (2) with a blow-off device for the degreasing medium, a washing facility (3) with a blow-off device for the washing medium, a dipping facility (4) with a blow-off device for the dipping medium, a washing facility (5) with a blow-off device for the washing medium, a preheating furnace (6), a galvanising furnace (7) with a protective atmosphere, a blow-off device (13) or a device for removing excess zinc, as well as a cooling and drying facility (8) with nozzles supplied with water and air and, if necessary, a chromating facility (9) with a blow-off device for the chromating medium, wherein the galvanising furnace (7) for receiving an alloy of molten zinc has a melting area (18), a galvanising pan (12) arranged over the melting area, a zinc charging area (20), wherein the molten zinc can be pumped from the melting area (18) into the galvanising pan (12) which has an overflow, and wherein the melting area (18) and the zinc charging area (20) are separated by a partition extending downwards into the zinc.

IPC 1-7  
**C23C 2/38**

IPC 8 full level  
**C23C 2/00** (2006.01); **B08B 3/02** (2006.01); **C23C 2/38** (2006.01); **C23C 22/73** (2006.01)

CPC (source: EP)  
**B08B 3/022** (2013.01); **C23C 2/385** (2013.01)

Citation (search report)  
• [A] FR 2323772 A1 19770408 - DELOT JOSE [FR]  
• [A] US 3639142 A 19720201 - MAXWELL HERRIS M, et al  
• [A] US 3673980 A 19720704 - KRENGEL THEODORE H, et al  
• [A] GB 1433019 A 19760422 - TURNER LISLE LTD  
• [A] DE 2105661 A1 19720810 - MANDL J  
• [A] FR 2181863 A1 19731207 - MANEELY ILLINOIS [US]  
• [A] GB 1532554 A 19781115 - RAYMOND A  
• [A] US 2771056 A 19561120 - HESS FREDERIC O  
• [A] DE 2406939 A1 19750904 - HECK FRIEDRICH

Cited by  
EP0826788A1; EP0635317A1

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0142082 A2 19850522; EP 0142082 A3 19850821; EP 0142082 B1 19890531**; AT E43646 T1 19890615; AU 2779089 A 19890427; AU 3529884 A 19850516; BR 8405749 A 19850917; DD 231085 A1 19851218; DE 3409935 C1 19850418; DE 3478474 D1 19890706; ES 537521 A0 19851216; ES 8605865 A1 19851216; GR 80858 B 19850227; IN 163652 B 19881022; JP S60169568 A 19850903; YU 146186 A 19880630; YU 187484 A 19880430; ZA 848756 B 19850731

DOCDB simple family (application)  
**EP 84112869 A 19841025**; AT 84112869 T 19841025; AU 2779089 A 19890106; AU 3529884 A 19841109; BR 8405749 A 19841109; DD 26922384 A 19841107; DE 3409935 A 19840317; DE 3478474 T 19841025; ES 537521 A 19841108; GR 840180858 A 19841106; IN 774CA1984 A 19841107; JP 23537884 A 19841109; YU 146186 A 19860820; YU 187484 A 19841107; ZA 848756 A 19841109