

PatentNumber: **WO2010000331** ( 2010/01/07) Application Number **WO2008EP5868** ( 2008/07/04)

Title: Apparatus for electrostatically coating a workpiece and method of reducing contamination ※

Assignee: ABB RESEARCH LTD [CH]; MATTOZZI ALESSANDRO [SE] ※

Inventor: ※

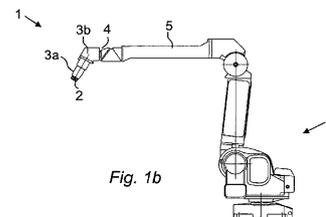
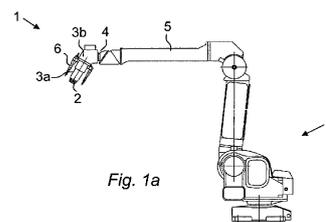
Priority Number: WO2008EP58688

Priority Date: 2008/07/04

IPC: B05B5/025; B05D3/14; C09D183/00; B05B13/04; B05B5/025; ※

Abstract:

To minimize contamination and improve cleanability of an apparatus (1) for electrostatically coating workpieces, the external surfaces of the apparatus are coated with a hydrophobic and hard coating.



PatentNumber: **WO2010000454** ( 2010/01/07) Application Number **WO2009EP0474** ( 2009/07/01)

Title: Method for coating a steel substrate, and coated steel substrate

Assignee: CORUS UK LTD [GB]; GUIO LAURENCE VERONIQUE YVONNE ※

Inventor: GUIO LAURENCE VERONIQUE YVONNE [GB]; ※

Priority Number: EP20080104645; US20080078515P; EP20080017591

Priority Date: 2008/07/04; 2008/07/07; 2008/10/07

IPC: B05D7/14; B05D7/14

Abstract:

The invention relates to a method for coating a steel substrate, wherein pickle hot rolled strip steel, cold rolled steel strip or zinc-coated strip steel material has been provided with a lubricant for corrosion protection before shipping and/or storing, and wherein the lubricated strip material is worked and/or formed to manufacture the steel substrate, and before and/or after the working and/or forming the steel substrate is coated with a paint system. According to the invention, the steel substrate is coated while the lubricant remains on the steel. The invention also relates to a steel substrate produced in accordance with the method of the invention, wherein the substrate has been provided with a coating comprising a lubricant and a paint.

PatentNumber: **WO2010000651** ( 2010/01/07) Application Number **WO2009EP5786** ( 2009/06/24)

Title: Method for coating a metal surface with a hybrid layer

Assignee: CT DE RECH S METALLURG ASBL CT [BE]; LE CRAZ ※

Inventor: ※

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IPC: C09D5/00; B05D7/14; C09D5/08; C23C22/26; C23C22/68; C09D5/00; ※

Abstract:

The present invention relates to a method for coating a static or moving metal substrate, having a simple or complex form, by means of an ultra-fine mineral/organic hybrid coating layer, having a thickness of 50 to 500 nm, deposited on the substrate: - from an aqueous solution containing oxide nanoparticles, - under basic pH conditions, - said substrate being at a temperature lower than 500 DEG C, - the total duration of the deposition and drying being less than 10 seconds, characterized in that the aqueous solution also contains at least one prepolymer.

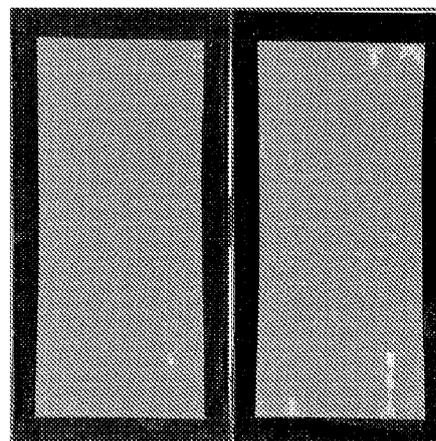


FIG. 1