

Title (en)

SURFACE TREATMENT METHOD AND DEVICE THEREFOR

Title (de)

VERFAHREN ZUR OBERFLÄCHENBEHANDLUNG SOWIE VORRICHTUNG ZUR DESSEN DURCHFÜHRUNG

Title (fr)

PROCEDE DE TRAITEMENT DE SURFACE ET DISPOSITIF DE MISE EN OEUVRE DU PROCEDE

Publication

EP 0861338 A1 19980902 (FR)

Application

EP 96934312 A 19961112

Priority

- CH 9600400 W 19961112
- CH 320795 A 19951113

Abstract (en)

[origin: WO9718344A1] A surface treatment method wherein one or more active particle streams are generated and aimed at a surface to be treated so that the particle stream interacts therewith. The active particle stream consists of activated particles forming chemically active sites on the surface, and modifying particles occupying said sites. The energy of the activated particles is greater than the energy at break of the inhibited surface bonds of the surface, and lower than the radiative flaw formation energy on the surface. The strength of the particle stream at the treated surface is greater than a quantity N/t where N is the surface density of the inhibited bonds to be broken and t is the duration of exposure of any point on the treated surface to the stream. A device for carrying out the method is also provided.

IPC 1-7

C23C 16/44; **A61L 2/14**; **C23F 4/00**; **H01L 21/00**; **C23C 8/10**

IPC 8 full level

C23C 8/10 (2006.01); **C23C 8/36** (2006.01); **C23C 16/452** (2006.01); **H01L 21/3065** (2006.01)

CPC (source: EP US)

C23C 8/10 (2013.01 - EP US); **C23C 8/36** (2013.01 - EP US); **C23C 16/452** (2013.01 - EP US); **H01L 21/3065** (2013.01 - EP US)

Citation (search report)

See references of WO 9718344A1

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