Title (en)
PACED CHEMICAL REPLENISHMENT SYSTEM

Title (de)
STIMULIERTES CHEMISCHES NACHFÜLLSYSTEM

Title (fr)
SYSTEME REGULE DE REGENERATION EN CONSTITUANTS CHIMIQUES

Publication
EP 1099013 A2 20010516 (EN)

Application
EP 99933935 A 19990713

Priority
- US 9915752 W 19990713
- US 9255198 P 19980713

Abstract (en)
[origin: WO0003073A2] A method of controlling the content of a chemical bath includes the steps of: determining a replenishment condition for the chemical bath; defining a unit of the replenishment condition; establishing a pacing factor corresponding to a replenishment volume of a replenishment medium per unit of the replenishment condition; and defining a replenishment threshold corresponding to the product of a predetermined number of the defined units of the replenishment condition and the pacing factor. The rate of continued replenishment of the predetermined constituent of the chemical bath is determined in response to the replenishment condition, which may be elapsed time, ampere-hours (or coulombs), number of product loads, product surface area, line speed over time, etc. The method replenishes constituents as they actually are consumed. It also prevents depletion (or buildup in the case of decanting a by-product) and the associated time delay related to detection and correction. The system permits the operator to set the replenishment delivery calculations. Once these settings are established, the system will automatically adjust the replenishment amount based on the replenishment condition by analysis of the plating bath.

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C25D 21/14

IPC 8 full level
C25D 21/14 (2006.01); **C25D 21/18** (2006.01)

CPC (source: EP KR)
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Citation (search report)
See references of WO 0003073A2

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WO 0003073 A2 20000120; **WO 0003073 A3 20001116**; AU 4988199 A 20000201; EP 1099013 A2 20010516; JP 2003527477 A 20030916; KR 20010053520 A 20010625

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