

Title (en)
METHOD OF FABRICATING SOLAR CELLS.

Title (de)
VERFAHREN ZUR HERSTELLUNG VON SONNENZELLEN.

Title (fr)
PROCEDE DE FABRICATION DE CELLULES SOLAIRES.

Publication
EP 0167589 A4 19890119 (EN)

Application
EP 85900535 A 19841214

Priority
• US 56306183 A 19831219
• US 65927984 A 19841010
• US 68100384 A 19841213

Abstract (en)
[origin: WO8502939A1] A solar cell fabrication procedure which is characterized by (1) removal of the front surface electrode plating mask after preliminary metallization of the front surface electrodes, (2) a passivation step which, inter alia, results in the formation of an altered silicon substrate surface layer, and (3) use of the altered surface layer as a plating mask for subsequent metallization steps involving, for example, immersion plating of nickel and immersion plating of electroplating of copper.

IPC 1-7
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IPC 8 full level
C23C 18/31 (2006.01); **C23C 28/00** (2006.01); **H01L 21/288** (2006.01); **H01L 31/0224** (2006.01); **H01L 31/04** (2006.01); **H01L 31/18** (2006.01)

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Citation (search report)
• [A] US 4152824 A 19790508 - GONSIORAWSKI RONALD
• [A] US 4347264 A 19820831 - LINDMAYER JOSEPH
• [A] US 4343830 A 19820810 - SARMA KALLURI R, et al
• [E] WO 8502942 A1 19850704 - MOBIL SOLAR ENERGY CORP [US]
• [A] APPLIED PHYSICS LETTERS, vol. 36, no. 10, 15th May 1980, pages 831-833, American Institute of Physics, New York, US; C.H. SEAGER et al.: "Improvement of polycrystalline silicon solar cells with grain-boundary hydrogenation techniques"
• See references of WO 8502939A1

Designated contracting state (EPC)
FR

DOCDB simple family (publication)
WO 8502939 A1 19850704; AU 3888685 A 19850712; AU 574761 B2 19880714; CH 669476 A5 19890315; DE 3490612 T1 19851128; EP 0167589 A1 19860115; EP 0167589 A4 19890119; GB 2162996 A 19860212; GB 2162996 B 19870812; GB 8515901 D0 19850724; JP S61500756 A 19860417; NL 8420338 A 19851101; SE 456624 B 19881017; SE 8503833 D0 19850816; SE 8503833 L 19850816

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US 8402065 W 19841214; AU 3888685 A 19841214; CH 359885 A 19851214; DE 3490612 T 19841214; EP 85900535 A 19841214; GB 8515901 A 19841214; JP 50071585 A 19841214; NL 8420338 A 19841214; SE 8503833 A 19850816