

Title (en)

REEL-TO-REEL REACTION OF PRECURSOR FILM TO FORM SOLAR CELL ABSORBER

Title (de)

REEL-TO-REEL-REAKTION EINER VORLÄUFERFOLIE ZUR FORMUNG EINER SOLARZELLENABSORPTIONSSCHICHT

Title (fr)

RÉACTION INTER-BOBINE D'UN FILM PRÉCURSEUR POUR FORMATION D'UN ABSORBEUR SOLAIRE

Publication

EP 2102898 A4 20110629 (EN)

Application

EP 07872342 A 20071112

Priority

- US 2007084432 W 20071112
- US 86538506 P 20061110

Abstract (en)

[origin: WO2008085604A2] A roll-to-roll rapid thermal processing (RTP) tool with multiple chambers for forming a solar cell absorber by reacting a precursor layer on a continuous flexible workpiece. The RTP tool includes an elongated housing having a heating chamber with a predetermined temperature profile, a supply chamber and a receiving chamber. The heating chamber includes a small process gap in which the precursor layer is reacted with a Group VIA material to form an absorber layer. The continuous flexible workpiece is unrolled and advanced from the supply chamber into the heating chamber, and the processed continuous flexible workpiece is taken up and rolled in the receiving chamber.

IPC 8 full level

H01L 21/00 (2006.01); **H01L 31/18** (2006.01); **H01L 31/04** (2014.01)

CPC (source: EP KR)

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Citation (search report)

- [XY] US 2004161533 A1 20040819 - SAWAYAMA TADASHI [JP], et al
- [Y] US 4723507 A 19880209 - OVSHINSKY HERBERT L [US], et al
- [Y] US 2004063320 A1 20040401 - HOLLARS DENNIS R [US]
- See references of WO 2008085604A2

Citation (examination)

EP 0782176 A2 19970702 - CANON KK [JP]

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DOCDB simple family (publication)

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US 2007084432 W 20071112; CN 200780046459 A 20071112; EP 07872342 A 20071112; JP 2009536531 A 20071112; KR 20097012027 A 20071112; TW 96142734 A 20071112