



US009410240B2

(12) **United States Patent**
Oser et al.

(10) **Patent No.:** **US 9,410,240 B2**
(45) **Date of Patent:** **Aug. 9, 2016**

(54) **PROCESS FOR PRODUCING METALLIZED MULTI-LAYER BODIES FROM SPECIAL POLYCARBONATES**

C23C 14/20 (2006.01)
C08L 69/00 (2006.01)
C23C 14/02 (2006.01)

(71) Applicant: **BAYER INTELLECTUAL PROPERTY GMBH, Monheim (DE)**

(52) **U.S. Cl.**
CPC *C23C 14/35* (2013.01); *C23C 14/022* (2013.01); *C23C 14/205* (2013.01); *C08L 69/00* (2013.01); *C23C 14/025* (2013.01); *Y10T 428/24967* (2015.01); *Y10T 428/31507* (2015.04)

(72) Inventors: **Rafael Oser, Krefeld (DE); Alexander Meyer, Düsseldorf (DE)**

(73) Assignee: **BAYER INTELLECTUAL PROPERTY GMBH, Monheim (DE)**

(58) **Field of Classification Search**
CPC *C08L 69/00*; *C23C 14/025*
See application file for complete search history.

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(56) **References Cited**

U.S. PATENT DOCUMENTS

(21) Appl. No.: **14/349,389**

6,562,715 B1 * 5/2003 Chen et al. 438/643
2011/0143126 A1 * 6/2011 Meyer et al. 428/334

(22) PCT Filed: **Oct. 5, 2012**

* cited by examiner

(86) PCT No.: **PCT/EP2012/069734**

§ 371 (c)(1),

Primary Examiner — Keith Hendricks

(2) Date: **Apr. 3, 2014**

Assistant Examiner — Timon Wanga

(87) PCT Pub. No.: **WO2013/050538**

(74) *Attorney, Agent, or Firm* — McBee Moore Woodward Vanik IP, LLC

PCT Pub. Date: **Apr. 11, 2013**

(65) **Prior Publication Data**

(57) **ABSTRACT**

US 2014/0234601 A1 Aug. 21, 2014

The invention relates to a process for producing multi-layer bodies which carry at least one metal layer. The invention further relates to multi-layer products having at least three layers, comprising a substrate layer made of a substrate and containing special copolycarbonates, a metal layer and at least one additional layer.

(30) **Foreign Application Priority Data**

Oct. 7, 2011 (EP) 11184318

(51) **Int. Cl.**

C23C 14/00 (2006.01)

C23C 14/35 (2006.01)

16 Claims, No Drawings