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TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the
earlier application (Rule 4.17(iii))

[Continued on next page]

(54) Title: DEPOSITION OF ULTRA-THIN INORGANIC OXIDE COATINGS ON PACKAGING

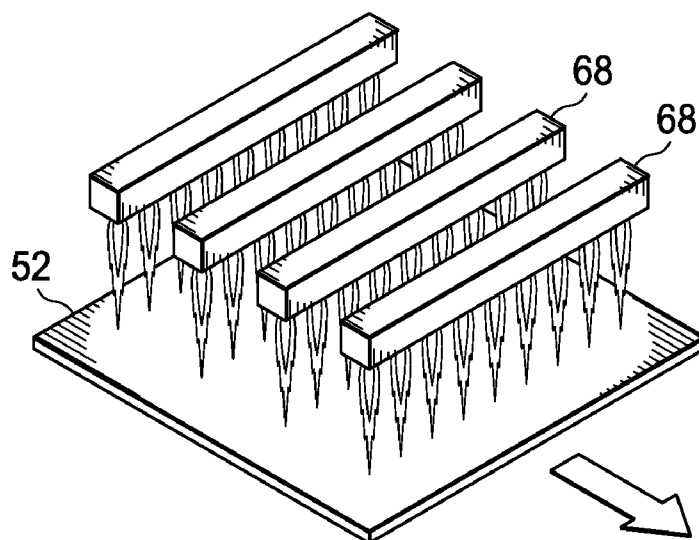


FIG. 2E

(57) Abstract: An apparatus and method for de-
positing an ultra-thin inorganic coating on to a
packaging film substrate is disclosed. Flame pre-
treatment enhances the quality of the inorganic
coating. Multiple coating layers may be deposited
onto the substrate by passing the substrate over
various one or more flame head configurations in
either a stand-alone or in-line manufacturing en-
vironment.



— *of inventorship (Rule 4.17(iv))*

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - C23C 16/00 (2013.01)

USPC - 427/248.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - B05D 3/08; C23C 4/00,16/00 (2013.01)

USPC - 118/47; 156/278; 427/223,248.1,446; 428/331

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

CPC - B05D 3/08; C23C 4/00,16/00 (2013.01)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PatBase, Google Patents

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2009/0199964 A1 (FAYET et al) 13 August 2009 (13.08.2009) entire document	1-13
Y	US 2006/0207295 A1 (HUENERMANN) 21 September 2006 (21.09.2006) entire document	1-13
Y	US 7,351,449 B2 (HUNT et al) 01 April 2008 (01.04.2008) entire document	4,13
Y	EP 0 058 571 A1 (PAYNE et al) 25 August 1982 (25.08.1982) entire document	8-10
Y	US 6,193,911 B1 (HUNT et al) 27 February 2001 (27.02.2001) entire document	12

☐ Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

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