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55133-3427 (US). **NIRMAL, Manoj**; 3M Center, Post Office Box 33427, Saint Paul, MN 55133-3427 (US).

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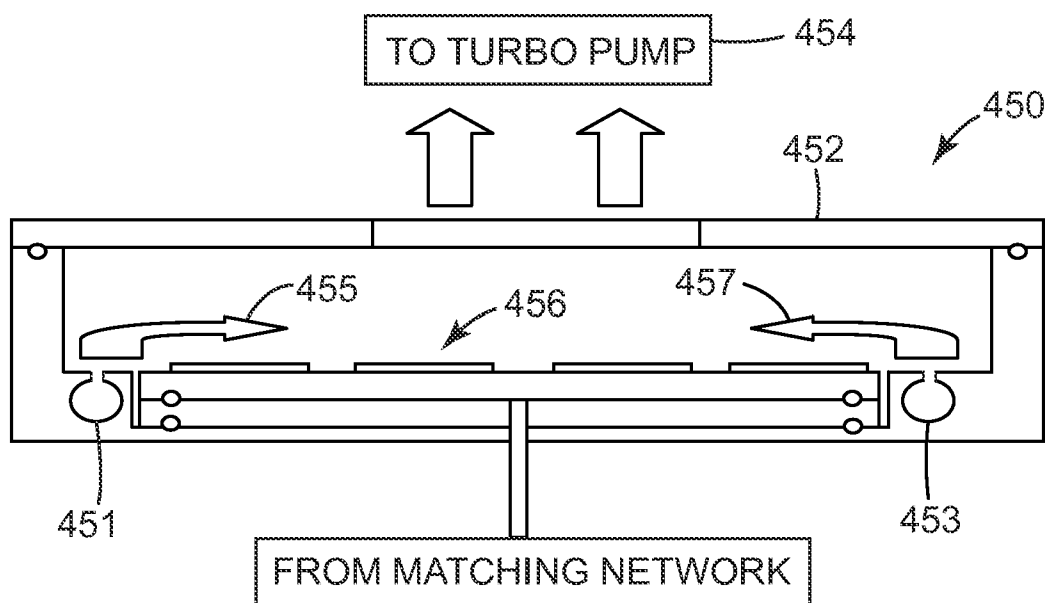
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[Continued on next page]

(54) Title: MOISTURE BARRIER COATINGS FOR ORGANIC LIGHT EMITTING DIODE DEVICES



(57) Abstract: A barrier assembly having a flexible or rigid substrate, an organic electronic device, and one or more layers of diamond-like film. The diamond-like film layers can be used to mount, cover, encapsulate or form composite assemblies for protection of moisture or oxygen sensitive articles such as organic light emitting diode devices, photovoltaic devices, organic transistors, and inorganic thin film transistors. The diamond-like film layers can also provide for edge sealing of adhesive bond lines in the assemblies.

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PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *as to the applicant's entitlement to claim the priority of the
earlier application (Rule 4.17(iii))*

Published:

— *with international search report*

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))*

(88) Date of publication of the international search report:
21 February 2008

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2007/069850**A. CLASSIFICATION OF SUBJECT MATTER*****H05B 33/04(2006.01)i***

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: H05B 33/

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

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

eKIPASS (KIPO internal) & keywords: "moisture", "barrier, sealing" and "DLC, diamond-like carbon"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005-0030264 A1 (TSUGE et al.) 10 Feb. 2005 See figure 11; paragraphs [123]-[125].	1-3, 6-8, 10, 12-16, 19-24
X	US 2004-0027061 A1 (SEO et al.) 12 Feb. 2004 See figure 9; paragraphs [102] and [151].	1, 15
X	US 2003-0089905 A1 (UDAGAWA et al.) 15 May 2003 See figures 14 and 15; paragraphs [168]-[176].	1, 15

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* 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

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"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

26 NOVEMBER 2007 (26.11.2007)

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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