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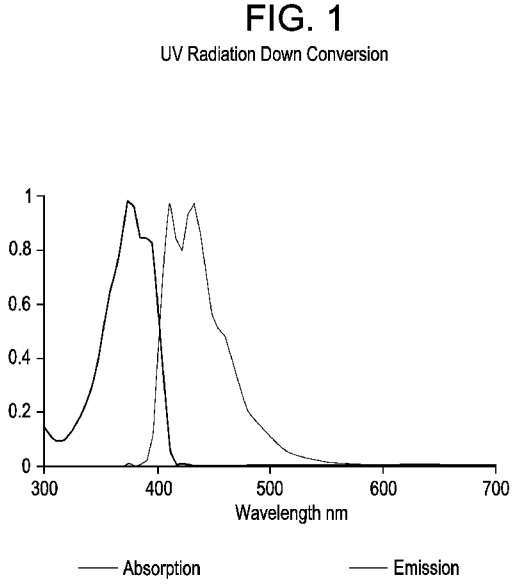
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[Continued on next page]

(54) **Title**: LIGHT TRANSMITTING THERMOPLASTIC RESINS COMPRISING DOWN CONVERSION MATERIAL AND THEIR USE IN PHOTOVOLTAIC MODULES

FIG. 1



(57) **Abstract**: Disclosed are thermoplastic resin formulations for use as a light transmitting layer (e.g., encapsulant layer) in a photovoltaic module comprising: (a) a light transmitting thermoplastic resin, (b) at least one down conversion material that exhibits a maximum in incident radiation absorption in the range of 280 to 500 nm and a maximum in radiation emission at a relatively longer wavelength in the range of 400 to 900 nm and improves the efficiency of photovoltaic electric current generation in a photovoltaic module; and (c) a light stabilizer additive that transmits at least about 40 percent of the ultraviolet (UV) electromagnetic radiation having a wavelength in the range of from about 280 nm to about 380 nm. Also disclosed are sheet materials prepared from such resins and photovoltaic modules incorporating such sheet materials.

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ADD.

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
H01L B32B

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)
EPO-Internal, WPI Data

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 10 2009 002386 A1 (EVONIK DEGUSSA GMBH [DE]) 21 October 2010 (2010-10-21) paragraph [0007]; figure 2 paragraph [0009] paragraph [0012] paragraph [0033] paragraph [0034] paragraph [0052] - paragraph [0053] paragraph [0061] paragraph [0067] paragraph [0035] - paragraph [0036] -----	1-8
A	WO 99/05206 A2 (EVERGREEN SOLAR INC [US]) 4 February 1999 (1999-02-04) cited in the application page 3, lines 9-24 -----	1-8
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[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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