WO 2009/042455 A3

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)
(19) World Intellectual Property Organization
International Bureau
(43) International Publication Date
2 April 2009 (02.04.2009)
(10) International Publication Number
WO 2009/042455 A3

(51) International Patent Classification:
H01S 5/42 (2006.01)  H01S 5/18 (2006.01)
H04N 9/31 (2006.01)  H01S 5/10 (2006.01)
(21) International Application Number:
PCT/US2008/075658
(22) International Filing Date:
16 September 2008 (16.09.2008)
(25) Filing Language:
English
(26) Publication Language:
English
(30) Priority Data:
60/975,772  27 September 2007 (27.09.2007)  US
(72) Inventors:
and

(54) Title: QUANTUM PHOTONIC IMAGERS AND METHODS OF FABRICATION THEREOF

Fig. 2B

(57) Abstract: A method of reclaiming of a cured elastomer material, comprising mixing the cured elastomer in form of crumb or chips with a devulcanization-aiding chemical composition, applying a shear- stress deformation to the mixture; the devulcanization-aiding chemical composition comprises following ingredients: first agent promoting scission of sulfide bonds of free radicals formed under said shear-stress deformation, which is selected from the following classes: monomers and sulfides and their derivatives; second agent providing the pre-set acidity in the course of the process and thus inhibiting recombination of sulfide bonds, which is selected from the following classes: organic acids and their anhydrides; third agent contributing to fast stabilization of the free radicals, which is selected from the class of oxidants fourth agent promoting redox reaction, which is selected from salts of metals with variable valence; and fifth agent prevention agglomeration of said elastomer material after applying the shear-stress deformation and reduction of friction, which is selected from the class of polar sorbents or fine bio-pigments.
(88) Date of publication of the international search report:
22 October 2009
INTERNATIONAL SEARCH REPORT

International application No
PCT/US2008/076568

A. CLASSIFICATION OF SUBJECT MATTER

INV. HO1S5/42 H04N9/31
ADD. HO1S5/18 H01S5/10

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)

HO1S, HO4N

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

Electronic database consulted during the international search (name of database and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<tr>
<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<tr>
<td>Y</td>
<td>EP 1 587 186 A (CANON KK [JP]) 19 October 2005 (2005-10-19) paragraphs [0001], [0012], [0037], [0040], [0070] figures 1,7A,7B,8</td>
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Date of the actual completion of the international search: 19 August 2009

Date of mailing of the international search report: 26/08/2009

Name and mailing address of the ISA/
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