Exxon photovoltaic patent 1978 haberman

The court"s decision in the case of Exxon Chem. Patents, Inc. v. Lubrizol Corp., 64 F.3d 1553, 35 USPQ2d 1801 (Fed. Cir. 1995), creates important new law governing the claiming of chemical compositions. Adopted by split panel decision, it is gravely incorrect. It is incorrect as a matter of law, as a matter of chemistry, and as a matter of ...

DOI: 10.1016/J.RSER.2018.05.033 Corpus ID: 115667205; Photovoltaic technologies: Mapping from patent analysis @article{Sampaio2018PhotovoltaicTM, title={Photovoltaic technologies: Mapping from patent analysis}, author={Priscila Gonçalves Vasconcelos Sampaio and Mario Orestes Aguirre Gonz{"a}lez and Rafael Monteiro de Vasconcelos and Marllen Aylla Teixeira ...

During the past year, we faced the worst environmental oil spillin U.S. history --- 4.9 million barrels of oil and 1.84 milliongallons of dispersants inundated the waters off the Gulf Coast.Am...

In 1970, Berman had approached Exxon with an idea that other companies had passed on: figuring out how to build a solar panel that would be economic for use on Earth. Solar cells had ...

Photovoltaic cell with junction-free essentially-linear connections to its contacts FR2487581A1 (en) * 1980-07-25: 1982-01-29: Eastman Kodak Co: ASSEMBLY OF PHOTOVOLTAIC CELLS AND METHOD OF MANUFACTURING SUCH ASSEMBLY US4361950A (en) * 1980-03-24: 1982-12-07: Exxon Research & Engineering Co.

Under President Ronald Reagan, solar subsidies introduced by Carter were phased out, leading to a decrease in demand and lower prices for oil. Exxon closed down its solar division, Exxon Solar Corp., around 1984, after a report found that the solar business would not be self-supporting for at least a decade.

There is provided a photovoltaic device that comprises a photoactive region, the photoactive region comprising a perovskite material of general formula A 1-x A" x BX 3-y X" y wherein A is a formamidinium cation(HC(NH) 2) 2 +), A" is a caesium cation (Cs +)B is at least one divalent inorganic cation, X is iodide and X" is bromide, and x is greater than 0 and equal to or less ...

The portfolio consists of 4 patent families including 24 patents assets in total (20 granted- 4 pending), 10 issued US patents along with 10 granted foreign counterparts in Europe (Germany, UK & France), China, India, and Canada. The portfolio"s earliest priority date is September 2009 and some of the patents will remain in force until 2034.

Latest Exxon Research & Engineering Co. Patents: Carbonyl containing compounds; ... Patent number: 4098676 Type: Grant Filed: Nov 11, 1976 Date of Patent: Jul 4, 1978 Assignee: Exxon Research & Engineering Co. (Linden, NJ) Inventor: ...

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Exxon Enterprises was formed by Exxon Corporation in 1964, as a wholly-owned affiliate, for the purpose of diversification - creating and investing in new businesses outside the petroleum and chemical industries. It was initially headed by Eugene ("Gene") McBrayer, President, and Hollister ("Ben") Sykes, Senior Vice President. By 1978, Exxon"s chairman, Clifton C. Garvin, had "...

As oil prices rose in the 1970s, demand for solar power increased. Exxon Corporation financed research to create solar cells made from lower-grade silicon and cheaper materials, pushing ...

The National Renewable Energy Laboratory achieves a new eficiency record for thin-film photovoltaic solar cells. The measurement of 18.8 percent eficiency for the prototype solar cell topped the previous record by more than 1 percent. Cumulative worldwide installed photovoltaic capacity reaches 1000 megawatts.

The flexible photovoltaic module includes a front plate, a solar cell and a back plate. The front plate, the solar cell and the back plate are arranged from top to bottom. ... The present disclosure claims priority to Chinese patent application No. 201721723574.7, filed on Dec. 12, 2017, entitled "Flexible Photovoltaic Module", the ...

French scientist Edmond Becquerel first discovered the photovoltaic effect in 1839. This process occurs when light is absorbed by a material and creates electrical voltage. Most modern solar cells use silicon crystals to attain this effect.

See Exxon Chem. Patents, Inc. v. Lubrizol Corp., 64 F.3d 1553, 35 USPQ2d 1801 (Fed. Cir. 1995), cert. denied, 116 S. Ct. 2554 (1996). The district judge interpreted our mandate on the prior appeal as prohibiting him from granting a new trial, and he therefore denied Exxon"s motion. Because our prior opinion was confined to the issue of literal ...

The patents arrive Towards the end of 1972 Whittingham and his colleagues informed their Exxon bosses that they had a new battery, and patents were filed within a year. Within a couple of years Exxon Enterprises wheeled out prototype 45Ah lithium cells and started work on hybrid vehicles. The Exxon battery promised to make a huge impact.

The multibillion-dollar solar photovoltaic industry has roots in an unexpected place. More than 40 years ago, oil companies invested in solar research and development that have proved...

Table 1.3 summarizes the events between 1950 and 1959 leading to the practical silicon single-crystal PV device. The key events were the Bell Labs announcement of the silicon solar cell [8] ...

Patents Act, 1978 South Africa South Africa Patents Act, 1978 Act 57 of 1978 Published in Government Gazette 6012 on 17 May 1978 Assented to on 26 April 1978 There are multiple commencements Provisions

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Status ChapterÂ IV, sectionÂ 21 commenced on 17 May 1978. Note: See section 96 SectionÂ 1â4; ChapterÂ I (sectionÂ 5â9); ChapterÂ II

We apply the method to silicon solar photovoltaic patents granted in the United States between 1977 and 1996, generating a list of 98 patents representing potential breakthroughs that can be ...

Patents Assigned to Exxon Nuclear Company Inc. BWR critical-power-enhancing water rod (85-EN-3) Patent number: 4708846 ... Date of Patent: March 7, 1978 Assignee: Exxon Nuclear Company, Inc. Inventors: John F. Patterson, Barney S. Flora ...

The role of intellectual property & patent information in successful innovation, production and marketing by Mandy Haberman. Abstract ... The patents include both one and two-valved vessels, both outwardly and inwardly domed valves and arrangements whereby the valve system is both integral to the lid or a separate component, for example ...

China"s PV patents soared from 126 to 1378, a tenfold increase, as the newcomer began to achieve technological self-sufficiency in a few silicon and PV module production processes. The "stagnant period" lasted from 2012 to 2018. During this period, the number of global annual patent applications was sustained at around 14,000, and China ...

1954 Photovoltaic technology is born in the United States when Daryl Chapin, Calvin Fuller, and Gerald Pearson develop the silicon photovoltaic (PV) cell at Bell Labs--the first solar cell capable of converting enough of the sun"s energy into power to run everyday electrical equipment.

John Perlin, author of Let It Shine: The 6,000-Year Story of Solar Energy, credits Berman, Solar Power Corp. and Exxon with "planting the flag of photovoltaics throughout the world." Call it a ...

Abstract: A sealable polymeric film structure comprising (a) a core layer including a thermoplastic polymer, the core layer having a machine side and a product side that is on a side of the film opposite from the machine side; and (b) a sealable skin layer positioned on the product side of the core layer, the sealable skin layer including a thermoplastic polymer, wherein an ...

PV solar cell encapsulation ExxonMobil has specifically developed Escorene Ultra EVA resins to meet the application ... fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for ...

For over 30 years, successful UK inventor Mandy Haberman has been shaping the future of infant feeding with products she has invented and successfully brought to market. She is a recognised authority on corporate theft and patent infringement, having successfully defended her own intellectual property in the USA, UK and

Europe. Read more.

Thousands of scientists and engineers, including more than 1,500 Ph.D.s, work at ExxonMobil. In R& D, they are exploring areas such as new catalytic and separation materials, novel low-energy process development and scale-up, advanced performance materials, and improved means of CO? storage. ... Our scientists have written more than 1,000 peer ...

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