

# **Japanese patent for hydrogen solar container technology**





## Overview

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The present invention relates to a hydrogen storage container rental system that manages the rental of hydrogen storage containers to consumers who have equipment that uses hydrogen as a power source. To provide a hydrogen storage container lending system which can efficiently supply hydrogen to achieve a hydrogen society. SOLUTION: A hydrogen storage container lending system 10 which performs management when lending a hydrogen storage container 12 to a consumer 21 who has an apparatus which uses. Hazer Group Ltd., an Australian-based clean-tech innovator, has achieved significant progress with the recent approval of a patent by the Japanese Patent Office. This patent reinforces the company's distinct process of creating hydrogen and graphitic carbon from hydrocarbons while employing iron. But now the Takasago facility has a new mission: to develop the technologies needed to harness hydrogen, an abundant element that can be burned with no carbon emissions, as a next-generation source of energy. Mitsubishi Heavy Industries (MHI), which operates the Takasago plant, has added Takasago. Japan's Ministry of Economy, Trade and Industry (METI) has declared that they intend to achieve a carbon-neutral/decarbonized society and has formulated a "Green Growth Strategy Through Achieving Carbon Neutrality in 2050 (Green Growth Strategy)" which mentions 14 key sectors, including. Hazer Group has secured a key Japanese patent for its technology producing hydrogen and graphitic carbon from hydrocarbons, advancing its global push to commercialise the low-emissions process. Already have an account?

Sign in here Energy News Bulletin (ENB) is the Asia Pacific region's most. The European Patent Office (EPO) and the International Energy Agency (IEA) have released the latest data on patent focusing on the hydrogen technology development. Leader in global patenting in hydrogen is Japan has 24 percent share of all international patent families (IPFs) filed from 2011 to.



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 LFP 12V 100Ah

### Current State And Our Analysis Of Japanese Patent Applications

This article highlights a survey of the hydrogen industry and features four categories within the hydrogen industry by examining the current status of patent applications in Japan related ...

### Japan shows why global partnerships key to scaling hydrogen

Japan's evolving approach to decarbonization shows how hydrogen can deliver impact when policy, capital, technology, supply and demand advance together.



### Recent advances in hydrogen production, storage, and fuel cell

According to this report, the European Union, Japan, and USA hold 67-78 % of the global patents on hydrogen production, storage, transmission, and end-use applications, while Korea and ...

### Hydrogen patents for a clean energy future

The results reveal encouraging transition patterns across countries and industry sectors, including a major contribution of Europe to the emergence of new hydrogen technologies.



Importantly, they ...

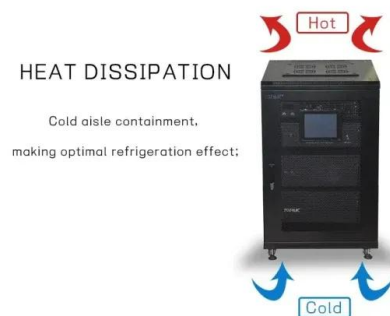


### Hydrogen technologies and developments in Japan

The other advantage is the wide distribution of resources globally that can be used to produce hydrogen. In Japan, the Ministry of Economy, Trade and Industry (METI) published a ...

### Hydrogen Technology

To enhance fuel flexibility, hydrogen has great potential as a renewable and sustainable energy source derived from wind or solar power and gasification of biomass and therefore substituting the limited ...



### Hydrogen is Taking Off in Japan. That's Good News for Global ...

Japanese companies hold an unmatched number of patents for hydrogen-related technologies, and are working hand-in-hand with international firms like HydrogenPro to further innovation.



## Re-examining Japan s Hydrogen Strategy: Moving Beyond the ...

Japan needs to clearly define the applications where hydrogen is truly needed to achieve decarbonization and develop a strategy for supplying green hydrogen from within and outside Japan ...



## Patent analysis on green hydrogen technology for future promising

Technology trend studies on patent analyses of hydrogen technology are critical in understanding the status of present and future technology, as well ...

## China closes in on Japan's hydrogen technology patent lead

TOKYO -- Though Japan continues to lead the world in hydrogen-related technology, its edge is narrowing as new patent filings by the country's companies and research institutions slow while



## Hydrogen storage container rental system

The present invention relates to a hydrogen storage container rental system that manages the rental of hydrogen storage containers to consumers who have equipment that uses hydrogen as



## Japanese Researchers Create Solar Reactor to Harness Hydrogen ...

Japanese scientists have created a new way to use sunlight and special photocatalysts to split water into hydrogen fuel. This offers a cleaner, sustainable alternative to hydrogen made from ...



## Hydrogen patent portfolios in the automotive industry - The search for

In the development of hydrogen vehicle technologies, the automotive industry adopts a portfolio approach; a multitude of technological options is developed for hydrogen storage and ...

## Hydrogen patents for a clean energy future

The results reveal encouraging transition patterns across countries and industry sectors, including a major contribution of Europe to the emergence of new hydrogen technologies. Importantly, they ...



## Investigating diffusion and convergence trajectory of hydrogen storage

Safe and flexible hydrogen storage technology (HST) emerges as a crucial element in driving the industrialization of hydrogen energy. Consequently, HSTs are being extensively ...



### Hydrogen patents shift towards clean technologies with ...

Munich, 10 January 2023 - Innovation in hydrogen is shifting towards low-emission solutions, with Europe and Japan in the lead and the United States losing ...



### Hydrogen is developing fast in Japan, closer to societal use , World

Japan is a global leader in hydrogen technology development, largely due to its strategic emphasis on hydrogen as a next-generation energy source.

### Japan's Hydrogen Revolution Attracts Global Players

Japan accounts for nearly one-fourth of hydrogen technology patents worldwide, covering a significant variety of areas. 5 Many of these are related to vehicle fuel ...



### Patent Search / Utility model Search , Japan Patent Office

Patent Search / Utility model Search J-PlatPat (Japan Platform for Patent Information) is an official digital library for patents, utility models, designs and trademarks.



## Hazer achieves Japanese patent for hydrogen technology

Hazer Group has secured a key Japanese patent for its technology producing hydrogen and graphitic carbon from hydrocarbons, advancing its global push to commercialise the low ...



## Japan's hydrogen prowess in peril as China, U.S. and EU poised to ...

Asia Insight Japan's hydrogen prowess in peril as China, U.S. and EU poised to overtake Policy action in coming months to determine whether green tech can avoid solar, battery missteps



## Hydrogen patents shift towards clean technologies with Europe and ...

The report finds that global patenting in hydrogen is led by the EU and Japan, who account for 28% and 24% respectively of all IPFs filed in this period. Both regions also saw significant growth in the past ...



## Japan generates hydrogen energy from sunlight and water

This 1,076-square-foot (100-square-meter) reactor uses photocatalytic sheets to split oxygen and hydrogen atoms in water molecules. As a result, the technology can extract the ...





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