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(54) **GAS STORAGE SYSTEM**

(75) Inventors: **Ulrich Müller**, Neustadt (DE); **Michael Hesse**, Worms (DE); **Reinhard Heβ**, Ellerstadt (DE); **Rainer Senk**, Ludwigshafen (DE); **Markus Hölzle**, Kirchheim (DE); **Omar M. Yaghi**, Ann Arbor, MI (US)

(73) Assignees: **BASF Aktiengesellschaft**, Ludwigshafen (DE); **The Regents of the University of Michigan**, Ann Arbor, MI (US)

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See application file for complete search history.

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*Primary Examiner*—Frank M. Lawrence
(74) *Attorney, Agent, or Firm*—Oblon, Spivak, McClelland, Maier & Neustadt, P.C.

(57) **ABSTRACT**

A container for uptaking, or storing, or releasing, or uptaking and storing, or uptaking and releasing, or storing and releasing, or uptaking, storing and releasing at least one gas, comprising a metal-organic framework material comprising pores and at least one metal ion and at least one at least bidentate organic compound which is bound to said metal ion, as well as to a fuel cell comprising said container, and to a method of using said container or said fuel cell for supplying power to power plants, cars, trucks, busses, cell phones, and laptops.

**28 Claims, No Drawings**