

RUSSIAN FEDERATION

(19) **RU** (11) **2 244 588** (13) **C1**

FEDERAL SERVICE
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PATENTS AND TRADEMARKS

(51) Int. Cl.

[B01D 53/28 \(2000.01\)](#)[B01J 20/32 \(2000.01\)](#)**(12) ABSTRACT OF INVENTION**

Legal status: no effect (recent status updates: 28.10.2013)
Duty: учтена за 7 год с 24.10.2009 по 23.10.2010

<p>(21)(22) Application: 2003131221/15, 23.10.2003</p> <p>(24) Effective date for property rights: 23.10.2003</p> <p>(45) Date of publication: 20.01.2005 Bull. 2</p> <p>(56) References cited: RU 2169606 C1, 15.06.1999. SU 483389 A, 05.09.1975. RU 2124396 C1, 10.01.1999. US 4290789 A, 22.09.1981. US 6159898 A, 12.12.2000. JP 57180420 A, 06.11.1982.</p> <p>Mail address: 630090, g.Novosibirsk, pr-t Akad. Lavrent'eva, 5, Institut kataliza im. G.K. Boreskova, patentnyj otdel, T.D. Judinoj</p>	<p>(72) Inventor(s): Aristov Ju.I. (RU), Gordeeva L.G. (RU), Tokarev M.M. (RU), Glaznev I.S. (RU), Savchenko E.V. (RU)</p> <p>(73) Proprietor(s): Institut kataliza im. G.K. Boreskova Sibirskogo otdelenija Rossijskoj Akademii nauk (RU)</p>
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(54) METHOD FOR PREPARATION OF COMPOSITE GAS AND LIQUID DRIER

(57) Abstract:

FIELD: sorbents.

SUBSTANCE: gas and liquid drier containing moisture-absorbing substance contained in pores of a matrix with open pore system and connected to the surface of matrix is prepared by impregnating matrix with moisture-absorbing substance solution, to which alkali solution is added to pH as high as 10. Alkali solution can be selected from solutions of alkali and alkali-earth metal hydroxides and ammonia. Moisture-absorbing substance is a high-hygroscopic salt such as alkali-earth metal halides, sulfates, and nitrates. Open-pore system-containing matrix is selected from inorganic oxides, porous coals, naturally occurring sorbents, porous metals, and their mixtures.

EFFECT: increased dynamic water-adsorption capacity and avoided leakage of hygroscopic salt solution from matrix pores.

4 cl, 7 ex