



(11) **EP 1 614 852 B8**

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

Note: Bibliography reflects the latest situation

(15) Correction information:
Corrected version no 1 (W1 B1)
INID code(s) 72,73

(51) Int Cl.:
E21B 7/28 (2006.01)

(48) Corrigendum issued on:
13.06.2007 Bulletin 2007/24

(86) International application number:
PCT/RU2004/000117

(45) Date of publication and mention
of the grant of the patent:
14.03.2007 Bulletin 2007/11

(87) International publication number:
WO 2004/090277 (21.10.2004 Gazette 2004/43)

(21) Application number: **04724469.4**

(22) Date of filing: **30.03.2004**

(54) **HOLE OPENER**

VORRICHTUNG ZUM ERWEITERN VON BOHRLÖCHERN

DETENDEUR DE Puits DE FORAGE

(84) Designated Contracting States:
DE FR GB IT

(30) Priority: **11.04.2003 RU 2003110466**

(43) Date of publication of application:
11.01.2006 Bulletin 2006/02

(73) Proprietor: **Otkrytoe Aktsionernoe Obschestvo**
"Tatneft" Im.
V.D. Shashina
423450 Almetyevsk, Tatarstan (RU)

- **ABDRAKHMANOV, Gabdrashit Sultanovich**
423230 Bugulma, Tatarstan (RU)
- **KHAMITYANOV, Nigamatyan Khamitovich**
423230 Bugulma, Tatarstan (RU)
- **KASHAPOV, Ilgiz Kamaevich**
423230 Bugulma, Tatarstan (RU)
- **ABDRAKHMANOV, Ruslan Gabdrashitovich**
Moscow, 117036 (RU)

(72) Inventors:

- **TAKHAUTDINOV, Shafagat Fakhrazovich**
423450 Almetyevsk, Tatarstan (RU)
- **IBRAGIMOV, Nail Gabdulbarievich**
423450 Almetyevsk, Tatarstan (RU)
- **KAVEEV, Khamit Zagirovich**
423450 Almetyevsk, Tatarstan (RU)

(74) Representative: **HOFFMANN EITLE**
Patent- und Rechtsanwälte
Arabellastrasse 4
81925 München (DE)

(56) References cited:
RU-C1- 2 027 843 **RU-C1- 2 172 385**
SU-A- 582 373 **SU-A- 874 952**
US-A- 3 171 503 **US-A- 4 842 083**
US-B1- 6 378 632

Note: Within nine months from the publication of the mention of the grant of the European patent, any person may give notice to the European Patent Office of opposition to the European patent granted. Notice of opposition shall be filed in a written reasoned statement. It shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

EP 1 614 852 B8