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The Patent Office of the Cooperation Council for the Arab States of the Gulf, in accordance with the GCC Patent Regulations issued in November 1999, and its Implementing Bylaws Issued on April 2000, decides to grant

De Raj Energy, Sdn. Bhd.

Letters Patent No. GC0010051

For the invention entitled:

**OFFSHORE UNIT AND METHOD OF INSTALLING WELLHEAD
PLATFORM USING THE OFFSHORE UNIT**

Filed on **May 12, 2009** the owner of the patent shall have the right to benefit from the full rights granted by the GCC Patent Regulations. This Letters Patent is considered valid for twenty years *starting from May 12, 2009, Till May 12, 2029* provided that the annuity fees are duly paid and the patent is not voided or lapsed due to violating of any provisions of the Patent Regulations or its Implementing Bylaws.

The General Director of the GCC Patent Office

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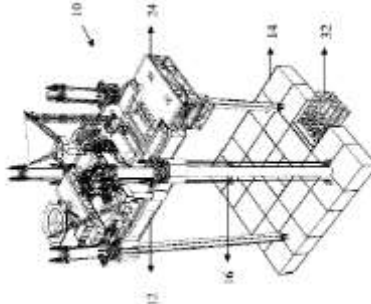
[12] Patent

[11] Patent No.: GC0010051 [45] Date of Publishing the Grant of the Patent: 31/Mar/2019 59/2019	Number of the Decision to Grant the Patent: 2019/147963 Date of the Decision to Grant the Patent: 26/Mar/2019
[21] Application No.: GCC/P/2009/13462 [22] Filing Date: 5/12/2009 [30] Priority: [31] Priority No. [32] Priority date [33] State PCT/MY2009/000038 19/3/2009 Malaysia PCT/MY2009/000043 14/5/2008 Malaysia [72] Inventors: 1- C. NADARAJAH, Nagendran, 2- DE RAJ, Renata Anita, 3- SUPPIAH, Mahendran [73] Owner: - De Raj Energy, Sdn. Bhd., C4-3-10, Solaris Dutamas, No. 1, Jalan Dutamas, Kuala Lumpur 50480, Malaysia [74] Agent: - Suleiman I. Al-Ammar Law Office	[51] IPC: E21B33/035, E21B41/08 [56] Cited Documents: -NL 135 005 C (NV INDUSTRIEELLE HANDELSCOMBINATIE HOLLAND TE ROTTERDAM) 17 April 1972 -US 6 869 252 B1 (MAINI RAMESH [US] ET AL) 22 March 2005 -US 4 658 903 A (TATEISHI HIROMITSU [JP]) 21 April 1987 Examiner: Mariam AlZayed

[54] OFFSHORE UNIT AND METHOD OF INSTALLING WELLHEAD PLATFORM USING THE OFFSHORE UNIT

[57] Abstract: The present invention relates to an offshore unit (10, 60, 62, 64, 58, 70) which includes hull (12) and/or deck frame (52), a mat (14) attached to at least one connecting leg (16) or a spud can (50) attached to each of at least one connecting leg or lower hull (18) attached to at least one connecting means (66), a wellhead deck (24) is removeably attached to the hull (12) and/or deck frame (52) and a sub-sea clamp in conjunction with a caisson (20) or a sub-sea conductor frame (32) removeably attached to the mat (14) or to the at least one connecting leg (16), where a spud can (50) is attached to each of the at least one connecting leg, or to the lower hull (18). The offshore unit is relocatable and is a platform or a rig capable of performing drilling, production, construction, accommodation, hook-up and commissioning or a combination of any of these functions thereof. The offshore unit is a self elevating mobile platform (10, 60, 62, 64) or submersible platform (70) or semi-submersible platform (58). The present invention also relates to a method of installing a wellhead platform (22) which includes a wellhead deck (24), sub-sea conductor frame (32) and at least one conductor (26) using a offshore unit (10, 60, 62, 64, 58, 70). The method includes transporting the offshore unit (10, 60, 62, 64, 58, 70) to offshore installation site, installing the offshore unit, installing at least one conductor (26) through the wellhead deck (24) and sub-sea conductor frame (32) until the at least one conductor (26) penetrate through soil layers to target penetration and securing the wellhead deck (24) to the at least one conductor (26). Alternatively, a sub-sea clamp in conjunction with a caisson can be pre-installed instead of the sub-sea conductor frame and offshore installed conductor. The present invention also relates to method of demobilizing a self elevating mobile platform (10, 60, 62, 64). Besides that, the present invention relates to method of installing a wellhead platform (22) for exploring hydrocarbon below sea bed which includes a wellhead deck (24) and sub-sea conductor frame (32) using a offshore unit.

No. of claims: 54 No. of figures: 30



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Notes: In case of ambiguity of the specification text, the guiding text will be the one on which Examination has been performed.