



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 1 184 537 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
16.10.2002 Bulletin 2002/42

(51) Int Cl.7: **E21B 43/25**

(43) Date of publication A2:
06.03.2002 Bulletin 2002/10

(21) Application number: **01610092.7**

(22) Date of filing: **31.08.2001**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR**
Designated Extension States:
AL LT LV MK RO SI

(72) Inventor: **Hansen, Jens Henrik**
2000 Frederiksberg (DK)

(74) Representative: **Sundien, Thomas et al**
Hofman-Bang Zacco A/S,
Hans Bekkevolds Allé 7
2900 Hellerup (DK)

(30) Priority: **01.09.2000 DK 200001298**

(71) Applicant: **MAERSK OLIE OG GAS A/S**
1263 Copenhagen K (DK)

(54) A method of stimulating a well

(57) The invention relates to a method of stimulating a drilled well for use in the production of oil or gas from a formation, wherein acid or the like aggressive liquid is supplied for decomposing material (51) on the surface of a well bore by use of a tubing (70) arranged within the well bore while forming a space (57) between the tubing (70) and the surface of the well bore, wherein said supplied liquid is discharged to said space (57) through openings (72) formed in the wall of the tubing (70) in the longitudinal expanse of the tubing (70) for influencing the material (51) on the surface of the well bore. The

invention is characterised in

- that the that the well bore (50) is established;
- that a first portion of the well bore (50) thus formed is provided with a reservoir liner (40) for the production of oil or gas;
- that the tubing (70) is introduced into the well bore (50) for extending at least into a second portion (S) of the well bore (50) to the profoundly situated end (55) of the well bore.

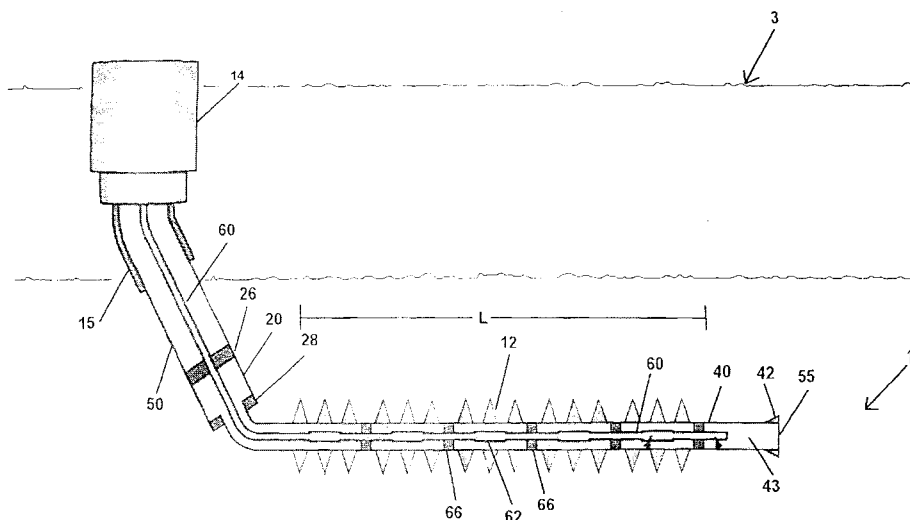


Fig. 1

EP 1 184 537 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 61 0092

| DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
|--|--|----------------------------------|--|
| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASSIFICATION OF THE APPLICATION (Int.Cl.7) |
| X | US 6 047 773 A (ZELTMANN THOMAS A ET AL) 11 April 2000 (2000-04-11) * column 22, line 31-33 * * column 22, line 55-60 * * figure 13B * ---- | 1,2,5,9 | E21B43/25 |
| A | GB 2 343 691 A (SHELL INT RESEARCH) 17 May 2000 (2000-05-17) * figure 1 * ---- | 1,10 | |
| A | US 2 186 349 A (SIMMONS JOHN T) 9 January 1940 (1940-01-09) * figure 1 * ---- | 1,10 | |
| A | US 2 804 926 A (ZUBLIN JOHN A) 3 September 1957 (1957-09-03) * figure 2 * ----- | 1,10 | |
| | | | TECHNICAL FIELDS SEARCHED (Int.Cl.7) |
| | | | E21B |
| The present search report has been drawn up for all claims | | | |
| Place of search | | Date of completion of the search | Examiner |
| THE HAGUE | | 28 August 2002 | Schouten, A |
| CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document | | | |

EPO FORM 1503 03/82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 61 0092

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

28-08-2002

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|---|---------------------|----------------------------|---------------------|
| US 6047773 | A | 11-04-2000 | EP 0916805 A2 | 19-05-1999 |
| | | | NO 985247 A | 14-05-1999 |
| | | | EP 0823538 A2 | 11-02-1998 |
| | | | NO 973644 A | 10-02-1998 |
| GB 2343691 | A | 17-05-2000 | NO 995593 A | 18-05-2000 |
| | | | US 6263966 B1 | 24-07-2001 |
| | | | US 6328113 B1 | 11-12-2001 |
| | | | US 2002060068 A1 | 23-05-2002 |
| | | | US 2002066576 A1 | 06-06-2002 |
| US 2186349 | A | 09-01-1940 | NONE | |
| US 2804926 | A | 03-09-1957 | NONE | |