PCTFULL

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Records in the database contain the searchable text of the complete document, including the specification and claims, titles and abstracts in French and English, patent applicant/assignees and inventors, and patent and priority application data. The complete text is available only for documents in English (70%), French (5%), German (15%) and Spanish (1%). Images (patent drawings) are offered, when available for a given patent.

Additionally legal status data and family display formats from the INPADOCDB database may be displayed.
An online thesaurus is available in the /IPC field.

SUBJECT COVERAGE

- All areas of patentable technology are included

SOURCES

- PCT/WIPO full text documents

FILE DATA

- 1978 to present (10/07): more than 1.3 million records; more than 880,000 images
- Updated weekly
- Automatic current-awareness searches (SDIs) are run weekly

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Fax: +49 7247 808-131
E-mail: helpdesk@fiz-karlsruhe.de

USER AIDS

- Online Helps (HELP DIRECTORY lists all help messages available)
- STNGUIDE

SEARCH AND DISPLAY FIELDS

Search Field Name	Search Code	Search Examples	Display Code
Basic Index (contains single words from the titles (TIEN, TIFR, TIDE, TIES), abstracts (ABEN, ABDE, ABES, ABFR), claims (CLM), and detailed description (DETD) fields 1)	None or /BI	S DIPHENYLETHER S HOLOGRA?(S)?LASER? S CHOLESTEROL SERIQUE S COMBUSTION INTERNA S LEITERPLATTEN	ABDE, ABEN ABES, ABFR CLM, DETD, TIDE, TIEN TIES, TIFR
Abstract (contains single words from ABDE, ABES, ABFR, and ABEN)	/AB	S INTERMEDIATE BODY/AB S COMMUTATEUR/AB	ABDE, ABEN, ABES, ABFR
Application Country (WIPO code and text)	/AC	S L1 AND WO/AC	AI
Application Date 2)	/AD	S MAY-JUN 1999/AD	AI
Agent 4)	/AG	S PEIST K?/AG	AG
Application Kind Code	/AK	S EPA/AK	AI
Accession Number	/AN	S 200000101/AN	AN
Application Number 3)	/AP (/APPS)	S WO1999-DE1002/AP	AI
Application Year 2)	/AY	S 1999-2000/AY	AI
Claims (contains single words from CLMDE, CLMEN, CLMES, and CLMFR)	/CLM	S COBALT SALTS/CLM	CLMEN, CLMES CLMDE, CLMFR
Number of Claims 2)	/CLMN	S 10-13/CLMN	CLMN
Number of Paragraphs in DETD (Detailed Description) 2)	/DETN	S DETN<9	DETN
Designated State (WIPO code and text)	/DS	S DE/DS	DS
Document Type (code and text)	/DT (/TC)	S PATENT/DT	DT
Entry Date 2)	/ED (/UP)	S ED>20000400	ED
Entry Week 2)	/EW	S 200207/EW	EW
Field Availability	/FA	S ABDE/FA	FA
Graphic Image Size 2)	/GIS	S GIS>13000	GIS
Graphic Image Type	/GIT	S TIF/GIT	GIT
IPC (contains ICM, ICS)	/IC	S A24B/IC	IC
IPC, Main	/ICM	S A01N001/ICM S A01B059-06/ICM	ICM
IPC, Secondary	/ICS	S A01G023/ICS	ICS
Inventor (current and old) 4)	/IN (/AU)	S MANG WILHELM/IN S ABBOTT CURTIS/AU	IN
International Patent Classification (ICM, ICS, IPCI, IPCR) 5)	/IPC	S A01B0001-02/IPC S H05B0006-36+NT/IPC S H05B0006-36-H05B0006-44/IPC	IPC
IPC, Action Date	/IPC.ACD	S 13 JAN 2006/IPC.ACD	IPC.TAB
IPC, Keyword Terms	/IPC.KW	S C12N0009/IPC (S) I/IPC.KW	IPC.TAB
IPC, Version	/IPC.VER	S 200601/IPC.VER	IPC.TAB
IPC, Initial	/IPCI	S H01L0023-29/IPCI	IPCI
IPC, Reclassified	IPCR	S C08L0061-00/IPCR	IPCR
Language (code and text)	/LA	S FR/LA S FRENCH/LA	LA
Language, Filing (code and text)	/LAF	S EN/LAF S ENGLISH/LAF	LAF

1) In addition to right truncation, simultaneous left and right truncation are available in this field. At least 4 characters need to be used for the length of the stem.
2) Numeric search field that may be searched using numeric operators or ranges.
3) Either STN format or Derwent format may be used.
4) Search with implied (S) proximity is available in this field.
5) An online thesaurus is available in this field.

SEARCH AND DISPLAY FIELDS (continued)

Search Field Name	Search Code	Search Examples	Display Code
IPC Main Group (range searchable) 2,6)	/MGR	S 10-20/MGR(S)C07C/IC	not displayed
Patent Assignee 4)	/PA (/CS)	S BROWN WILLIAMSON/PA	PA
Patent Number Group 3)	/PATS	S WO2000000032/PATS	PI
Patent Country (WIPO code and text)	/PC	SWO/PC	PI
Publication Date 2)	/PD	S 19991202/PD	PI
Patent Kind Code	/PK	S DEC2/PK	PI
Patent Number 3)	/PN	S WO2000000010/PN	PI
Priority Country (WIPO code and text)	/PRC	S AU/PRC S AUSTRALIA/PRC	PRAI
Priority Date 2)	/PRD	S JAN-FEB 1999/PRD	PRAI
Priority Number (original input)	/PRNO (/PRN)	S US77-827572/PRNO	PRAI
Priority Year 2)	/PRY	S L1 AND PRY>1999	PRAI
Priority Year, First 2)	/PRYF	S L1 AND 1998/PRYF	
Publication Year 2)	/PY	S 1999/PY	PI
IPC Subgroup Range-Searchable 2,6)	/SGR	S C01B/ICM(S)100-2000/SGR	IC
Title (contains single words from TIDE, TIEN, TIES, and TIFR	/TI	S DRILLING FLUID#/TI	TI, TIDE ,TIES, TIFR

2) Numeric search field that may be searched using numeric operators or ranges.
3) Either STN format or Derwent format may be used.
4) Search with implied (S) proximity is available in this field.
6) Valid until IPC version 7 only.

IPC Thesaurus

The classifications, validity and catchwords for the main headings and subheadings from the current (8th) edition of the WIPO International Patent Classification (IPC) manual are available. The classifications from the previous editions (1-7) are also available as separate thesauri. To EXPAND and SEARCH in the thesauri for editions 1-7, use the field code followed by the edition number, e.g., /IPC2, for the 2nd edition. Catchwords are included only in the thesauri for the 8th, 7th, 6th, and 5th editions.

Relationship-Code	Content	Examples
ADVANCED (ADV)	Advanced Codes for the Core Level IPC Code	E A61K0006-02+ADVANCED/IPC
ALL	All Associated Terms (BT, SELF, NT, RT)	E C01C003-00+ALL/IPC
BRO (MAN)	Complete Class	E C01C+BRO/IPC
BT	Broader Term (BT, SELF)	E C01F001-00+BT/IPC
CORE (COR)	Core Codes for the Advanced Level IPC Code	E G08C0019-22+CORE/IPC
ED	Complete title of the SELF term and IPC manual edition	E C01F001-00+ED/IPC
HIE	Hierarchy Term (Broader and Narrower Term) (BT, SELF, NT)	E C011003-00+HIE/IPC
INDEX	Complete title of the SELF term	E C01F001-00+INDEX/IPC
KT	Keyword Term (catchwords) (SELF, KT)	E CYANOGEN+KT/IPC
NEXT	Next Classification	E C01C001-00+NEXT5/IPC
NT	Narrower Terms (SELF, NT)	E C01C+NT/IPC
PREV	Previous Classification	E C01C001-12+PREV10/IPC
RT (SIB)	Related Terms (SELF, RT)	E C01C003-20+RT/IPC
TI	Complete Title of the SELF Term and Broader Terms (BT, SELF)	E C01F001-00+TI/IPC

DISPLAY AND PRINT FORMATS

Any combination of display fields and formats may be used to display or print answers. Multiple codes must be separated by commas or spaces, e.g. 'D L1 1-5 TI PI'. The fields are displayed or printed in the order requested. Hit-term highlighting is available for most searchable fields. Highlighting must be ON during SEARCH in order to use the HIT, KWIC, and OCC formats.
More information about display fields for specific types of information is available by typing one of the following 'HELP' commands at an arrow prompt (=>) in the PCTFULL database:

HELP DFIELDS	-	lists all valid custom formats
HELP EFIELDS	-	lists all selectable fields
HELP FORMATS	-	lists valid predefined formats
HELP SRTFIELDS	-	lists valid sort fields

Format		Definition	Examples
AB		Abstract	D TI AB 1-5
ABDE		Abstract in German	
ABEN		Abstract in English	
ABES		Abstract in Spanish	
ABFR		Abstract in French	
AG		Agent	D AG
AI (AP)	1)	Application Information	D AI
AN		Accession Number	D L3 AN
CLM		Claims	
CLMN		Number of Claims	D CLMN
DETD		Detailed Description	D DETD
DETN		Number of Paragraphs in DETD	D DETN
DS		Designated State	
DT (TC)		Document Type	D DT LA
ED		Entry Date	D ED
EW		Entry Week	D EW
FA		Field Availability	D FA
GI	2)	Graphic Image	D GI
GIS	3)	Graphic Image Size	D GIS
GIT	3)	Graphic Image Type	D GIT
IC		IPC (format contains ICM, ICS)	D IC
ICM		IPC, Main	D ICM
ICS		IPC, Secondary	D ICD
IN (AU)		Inventor	D IN
IPC		IC (ICM, ICS, IPCI, IPCR)	
IPCI		IPC, Initial	D IPCI
IPCR		IPC, Reclassified	D IPCR
LA		Language	D LA
LAF		Language , Filing	
LS	3)	Legal Status (from the INPADOCDB database)	D LS
LS2	3)	Legal Status (from the INPADOCDB database), detailed version with display headers	
PA (CS)		Patent Assignee	D PA
PATS		Patent Number Group	D PATS
PI (PN)	1)	Patent Information	D PI
PRAI (PRN)	4)	Priority Information	D PRAI
TI		Title	D TI
TIDE		Title in German	
TIEN		Title in English	

1) Application and patent numbers are available in Derwent and STN format. The format for DISPLAY, PRINT, SELECT and SORT is set using the SET PATENT command. STN is the default format. Enter SET PAT DERWENT to change to the DERWENT format.To reset to the STN format, enter SET PAT STN.
2) Any program that handles TIFF and JPeg images compressed in Group 4 fax format, e.g., STN Express, may be used to capture graphic images from DISPLAY or they may be viewed directly on the screen during a STN on the WEB session.
3) Custom display only.
4) In PRAI the Priority Number is in Original Format, i.e., the format the producer delivers which is identical to the format on the printed papers.

DISPLAY AND PRINT FORMATS (continued)

Format	Definition	Examples
TIES	Title in Spanish	
TIFR	Title in French	
UP	Update Date	D UP
ABS	ABEN, ABFR, ABES, ABDE	
ALL (MAX)	AN, ED, EW, TI (all titles), IN, PA, AG, LA, LAF, DT, PI, DS, AI, PRAI, IPC, ABEN, ABFR, ABES, ABDE, DETD, CLMEN, CLMFR, CLMES, CLMDE	
ALLG (MAXG) 1,2)	ALL, plus GI	
IALL (IMAX) 1)	ALL, indented with text labels	D IALL
IALLG (IMAXG) 1)	IALL, plus GI	
APPS 1)	AI, PRAI	
BIB 1)	AN, ED, EW, TI (all titles), IN, PA, AG, LA, LAF, DT, PI, DS, AI, PRAI	D BIB
BIBG 1,2)	BIB, plus GI	D BIB.M
IBIB 1)	BIB, indented with text labels	D IBIB
IBIBG 1,2)	IBIB, plus GI	
BRIEF 1)	AN, ED, EW, TI (all titles), IN, PA, AG, LA, LAF DT, PI, DS, AI, PRAI, IPC, AB (all abstracts)	D BRIEF
BRIEFG 1,2)	BRIEF, plus GI	
IBRIEF 1)	BRIEF, indented with text labels	D IBRIEF
IBRIEFG 1,2)	IBRIEF, plus GI	
CFAM	Condensed family format (from the INPADOCDB database)	
FAM	AN, table of patent family information (from the INPADOCDB database)	
IND (CODE)	IC (ICM, ICS)	
IPC.TAB	IPC, IPC.KW, IPC.ACD, IPC.VER in tabular format	
IPC.TAB.M	IPC.TAB for all levels	
SCAN 5)	TI (random display without answer numbers)	D SCAN
STD 1)	BIB plus IPC (default)	
STDG 1,2)	STD plus GI	
ISTD 1)	STD, indented with text labels	
ISTDG 1,2)	ISTD plus GI	
TRIAL (TRI, SAMPLE, SAM, FREE)	TI (all titles), CLMN, DETN, FA	
TX	DETD, CLM	D TX
HIT	Hit-term(s) and field(s)	
KWIC	Up to 50 words before and after hit-term(s) (KeyWord-In-Context)	
OCC	Number of occurrences of hit-term(s) and field(s) in which they occur	D OCC 1-6

1) Application and patent numbers are available in Derwent and STN format. The format for DISPLAY, PRINT, SELECT and SORT is set using the SET PATENT command. STN is the default format. Enter SET PAT DERWENT to change to the DERWENT format.To reset to the STN format, enter SET PAT STN.
2) Any program that handles TIFF and JPeg images compressed in Group 4 fax format, e.g., STN Express, may be used to capture graphic images from DISPLAY or they may be viewed directly on the screen during a STN on the WEB session.
5) SCAN must be specified on the command line, i.e., D SCAN or DISPLAY SCAN.

SELECT, ANALYZE, AND SORT CODES

The SELECT command is used to create E-numbered or L-numbered lists of terms taken from the specified field(s) in an answer set.
The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.
The SORT command is used to rearrange the search results in either alphanumeric (A) or numeric (N) order of the specified field(s).

SELECT, ANALYZE, AND SORT CODES (continued)

Definition	Code	Analyze/ Select 1)	Sort
Abstract in German	ABDE	x 2)	-
Abstract in English	ABEN	x 2)	-
Abstract in Spanish	ABES	x 2)	-
Abstract in French	ABFR	x 2)	-
Application Date	AD	x	N
Agent	AG	x	A
Application Information	AI (AP)	x	-
Accession Number	AN	x	A
Application Number Group	APPS	x 3)	-
Application Year	AY	x	N
Claims	CLM	x	-
Claims in German	CLMDE	x	-
Claims in English	CLMEN	x	-
Claims in Spanish	CLMES	x	-
Claims in French	CLMFR	x	-
Number of Claims	CLMN	x	-
Detailed Description	DETD	x	-
Number of Paragraphs in DETD	DETN		
Designated State	DS	x	-
Document Type	DT (TC)	x	A
Entry Date	ED	x	N
Entry Week	EW	x	-
Graphic Image Size	GIS	x	N
Graphic Image Type	GIT	x	A
International Patent Classification	IC	x	
IPC, Main	ICM	x	A
IPC, Secondary	ICS	x	-
Inventor	IN (AU)	x	-
IPC (ICM, ICS, ICA, ICI, IPCI, IPCR)	IPC	x	-
IPC, Advanced Level Symbols	IPC.A	x 4)	-
IPC, Advanced Level Symbols for Invention	IPC.AI	x 4)	-
IPC, Core Level Symbols	IPC.C	x 4)	-
IPC, Core Level Symbols for Invention	IPC.CI	x 4)	-
Pre-IPC8 Symbols from the ICM and first IPC8 values from 2006 onwards	IPC.F	x 4)	-
IPC, Initial	IPCI	X 4)	-
IPC, Reclassified	IPCR	X 4)	-
Language	LA	x	A
Language of Filing	LAF	x	A
Occurrence Count of Hit Terms	OCC	-	N
Patent Assignee	PA (CS)	x	A
Patent Number Group	PATS	x	-
Patent Country	PC	x	A
Publication Date	PD	x	N
Patent Information	PI	x (default)	A
Patent Kind Code	PK	x	A
Patent Number	PN	x	A
Priority Information, Original	PRAI	x	A
Priority Country	PRC	x	A
Publication Year	PY	x	N

1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT TI.
2) Appends /AB to the terms created by SELECT.
3) Selects or analyzes AP and PRN with /APPS appended.
4) Appends /IPC to the terms created by SELECT.

SELECT, ANALYZE, AND SORT CODES (continued)

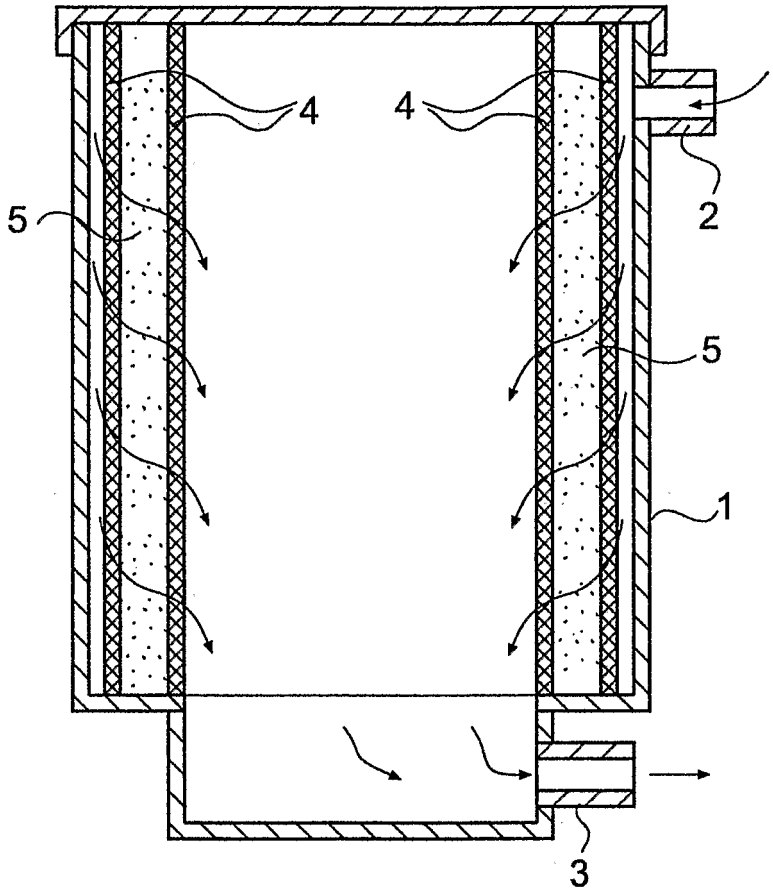
Definition	Code	Analyze/ Select 1)	Sort
Priority Date	PRD	x	N
Priority Number	PRN	x	A
Priority Number, Original	PRNO	x	A
Priority Year	PRY	x	N
Priority Year, First	PRYF	x 5)	N
Subclass Group	SCG	x	-
Subclass Group Main	SCGM	x	-
Subclass	SCL	x	-
Subclass Main	SCLM	x	-
Title	TI	x	A
Title in German	TIDE	x 6)	A
Title in English	TIEN	x 6)	A
Title in Spanish	TIES	x 6)	A
Title in French	TIFR	x 6)	A
Update Date	UP	x	N

1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT TI.
5) SELECT or ANALYZE HIT are not valid with this field.
6) Appends /TI to the terms created by SELECT.

SAMPLE RECORDS

DISPLAY ALLG

```
AN      2006035102 PCTFULL  ED 20060411  EW 200614 Full-text
TIEN    FILTER DEVICE
TIFR    DISPOSITIF FILTRANT
IN      SUHONEN, Matti, Nummisuutarinkatu 3 As. 5, FI-48770 KARHULA, FI
PA      M.S. EAGLE OY, Karhulantie 32, FI-48600 KARHULA, FI
AG      BERGGREN OY AB, P.O. Box 16 (Jaakonkatu 3 A), FI-00101 HELSINKI, FI
LAF     Finnish
LA      English
DT      Patent
PI      WO 2006035102         A1 20060406
DS      W:             AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR
                       CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID
                       IL IN IS JP KE KG KM KP KR KZ LC LK LR LS LT LU LV LY MA
                       MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL PT RO RU
                       SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC
                       VN YU ZA ZM ZW
        RW (ARIPO):    BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW
        RW (EAPO):     AM AZ BY KG KZ MD RU TJ TM
        RW (EPO):      AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT
                       LU LV MC NL PL PT RO SE SI SK TR
        RW (OAPI):     BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
AI      WO 2005-FI404          A  20050923
PRAI    FI 2004-20040001242      20040927
IPCI    C02F0001-28 [I,A]; C02F0001-40 [I,A]; B01D0029-15 [N,A]; C02F0101-32
        [N,A]
        C02F0001-28 [I,C*]; C02F0001-40 [I,C*]; B01D0029-13 [N,C*]; C02F0101-32
        [N,C*]
```



ABEN The invention relates to a filter device consisting of a receptacle (1) comprising an inlet duct (2) and an outlet duct (3) and of a filter mesh (4) within the receptacle. The filter mesh (4) has a double wall with an intermediate space filled with a filter material layer (5) absorbing crude oil distillate.

ABFR L'invention concerne un dispositif filtrant constitue d'un receptacle (1) comprenant un conduit d'entree (2) et un conduit de sortie (3), et d'un tissu filtrant (4) dispose dans le receptacle. Le tissu filtrant (4) comporte une double paroi avec un espace intermediaire rempli d'une couche de materiau filtrant (5) absorbant les distillats de petrole brut.

DETD Filter device

This invention relates to a filter device consisting of a receptacle comprising an
inlet duct and an outlet duct and of a filter mesh within the receptacle.

Prior art filter devices of this kind are used for removing particles from liquids.

Such filter devices known per se are not usable for oil removal from water, for in-
stance. This invention has the purpose of providing a filter device allowing separa-
tion also of various chemicals from water. The filter device of the invention is char-
acterised by the filter mesh having a double wall, with an intermediate space filled
with a filter material layer absorbing crude oil distillate.

One embodiment of the invention is characterised by a cylindrical

receptacle and a tubular filter mesh, with the filter mesh including an annular space accommodating the filter material layer. The filter material layer thus forms a circular tubular mat within the receptacle, through which the liquid to be filtered flows or is pressed evenly.

The filter mesh may contain activated carbon and a HEPA filter substance, which have a joint anti-bacterial effect.

One embodiment of the invention is further characterised by the filter material layer being amino resin and organic polymer, preferably at an approximate ratio of 53/47. All the tests have proved that the combination of the type described above purifies water, removing aircraft petrol, kerosene, mineral oil, such as diesel/fuel oil and lubricating oil, and also a liquid chemical tested in an experiment. Thus, for instance, a test using diesel/fuel Oil CIO-C21 and lubricating oil C22-C40 (hydrogen fractions) mixed at a percentage of 0.1 in water, i.e. at a ratio of 50 ml/50 I of water, yielded only 0.01 3 mg/I and 0.01 4 mg/I, respectively, after filtering and purification. These test results give evidence of the excellent operation of the filter device in accordance with the invention.

The invention is explained below by means of an example and with reference to the accompanying drawing, whose figure shows the principle view of the filter device in cross-section.

The filter device consists of a receptacle 1, comprising an inlet duct 2 and an outlet duct 3, and of a filter mesh 4 within the receptacle, The filter mesh 4 has a double wall with an intermediate space filled with a filter material layer 5 absorbing crude oil distillate. The receptacle 1 is cylindrical and the filter mesh 4 is tubular, forming an annular space within the filter mesh, in which the filter material layer 5 is placed. The filter mesh may contain activated carbon and a HEPA filter substance, which together remove any bacteria from the liquid to be filtered. The filter material layer 5 consisting of amino resin and organic polymer removes crude oil distillates, such as fuels and oils, from the water well enough for the purified water to be returned to sea or ground water, for instance.

CLMEN 1 A filter device consisting of a receptacle (1) comprising an inlet duct (2) and an outlet duct (3) and of a filter mesh (4) within the receptacle, characterised in that the filter mesh (4) has a double wall with an intermediate space filled with a filter material layer (5) absorbing crude oil distillate.

2 A filter device as defined in claim 1 , characterised in that the receptacle (1) is
cylindrical and the filter mesh (4) is tubular, the filter mesh including an annular
space, in which the filter material layer (5) is placed.

3 A filter device as defined in claim 1 or 2, characterised in that the filter mesh
(4) contains activated carbon.

4 A filter device as defined in any of the preceding claims, characterised in that
the filter mesh (4) contains a High Efficient Particulate Air (HEPA) substance.

5 A filter device as defined in any of the preceding claims, characterised in that
the filter material layer (5) consists of amino resin and organic polymer, preferably
at an approximate ratio of 53/47.

DISPLAY BIB LS

```
AN     2003007669 PCTFULL  ED 20030131  EW 200304 Full-text
TIEN   X-RAY EMITTING SYSTEM AND METHOD
TIFR   SYSTEME ET PROCEDE D'EMISSION DE RAYONS X
IN     CHORNENKY, Victor, 702 Apple Creek Lane, Santa Rosa, CA 95404, US
PA     MEDTRONIC AVE, INC., 3576 Unocal Place, Santa Rosa, CA 95403, US [US,
       US]
AG     MARESH, CATHERINE, C., Medtronic AVE, Inc., 3576 Unocal Place, Santa
       Rosa, CA 95403, US
LAF    English
LA     English
DT     Patent
PI     WO 2003007669        A1 20030123
DS     W:            JP
       RW (EPO):     AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL
                     PT SE SK TR
PRAI   US 2001-09/905,267      20010713
AI     WO 2002-US21811      A  20020709

LEGAL STATUS  INPADOCDB   COPYRIGHT 2007 EPO / FIZ KARLSRUHE on STN
AN     2003007669 PCTFULL Full-text
20030123 WOAK       + DESIGNATED STATES
                      WO                  A1
                      JP
20030123 WOAL       + DESIGNATED COUNTRIES FOR REGIONAL PATENTS
                      WO                  A1
                      AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL
                      PT SE SK TR
20030319 WO121        EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS
                      DESIGNATED IN THIS APPLICATION
20030320 WODFPE       REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO
                      EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT
                      APPLICATION FILED BEFORE 20040101)
                  EXA Examination, Search Report
20040113 WOENP        ENTRY INTO THE NATIONAL PHASE IN:
                      JP 2003513296       A          F
```