

WPAM

■ **Contents:**

Derwent World Patents Index merged with APIPAT indexing contains records for more than nine million patents, including coverage of petroleum processes, fuels, lubricants, petrochemicals, pipelines, tankers, storage, pollution control, synthetic gas, C1 chemistry and other technologies. WPAM benefits from the API EnCompass's renowned indexing capabilities as well as the unique Derwent classification and coding system.

■ **Source:** Derwent World Patents Index / API EnCompass Merged

This WPAM Fact Sheet includes ONLY the API EnCompass indexing fields. All other fields are documented in the DWPI Fact Sheet.

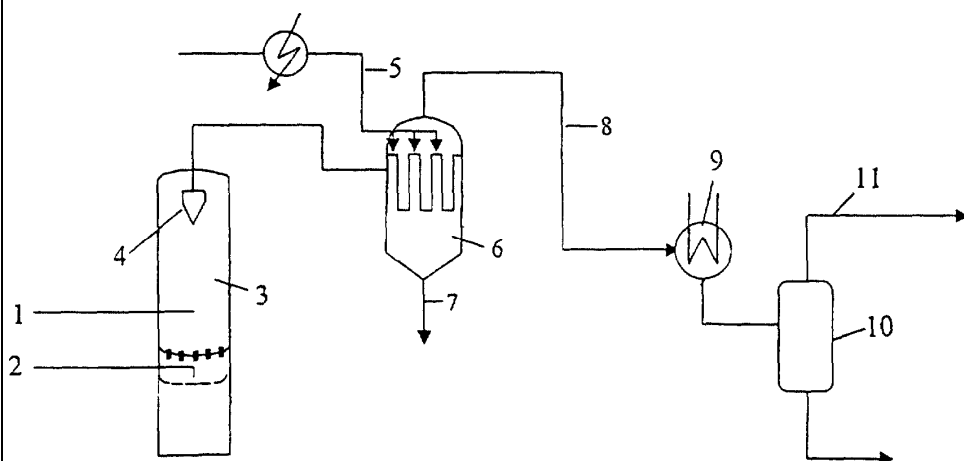
■ **Coverage:** from 1963 to present

- **Number of documents:** More than 16 million
More than 9 million images
- **Updating:** Weekly
- **Language of documents:** English
- **Cluster searching:** FILE CL PATENTS (or FI CL PATENTS)
- **SDI Profiles:** Weekly
Monthly
- **Producer:** API EnCompass
C/O Engineering Information
1 Castle Point Terrace
Hoboken, NJ 07030-5996
USA
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Toll Free: 800 221-1044
Fax: +201 216-8532
Web: www.apiencompass.org/
Email: info@apiencompass.org

Sample Record

MAXT IMG Format

1/1 WPAM - (C) The Thomson Corp.- image
CPIM The Thomson Corp.



AN - 2002-599950 [64]
 AXR - API P200226154
 XA - C2002-169734
 TI - Production of 1,2-dichloroethane comprises filtration of reaction gas outside of oxychlorination reactor by means of at least one filter
 DC - E16
 PA - (ERTL/) ERTL H
 - (KAMM/) KAMMERHOFER P
 - (MIEL/) MIELKE I
 - (STAI/) STAIB G
 - (VINN) VINNOLIT TECHNOLOGIE GMBH & CO KG
 IN - ERTL H; JACULI D; KAMMERHOFER P; MIELKE I; STAIB G; STOEGER M; GUENTER S; HORST E; INGOLF M; PETER K
 NP - 20
 NC - 96
 PN - WO200264535 A1 20020822 DW2002-64 C07C-017/156 Ger 23p *
 AP: 2002WO-EP01503 20020213
 - DE10107089 A1 20020829 DW2002-65 C07C-017/156 Ger
 AP: 2001DE-1007089 20010213
 - NO200303489 A 20030806 DW2003-66 C07C-000/00 Nor
 AP: 2002WO-EP01503 20020213, 2003NO-0003489 20030806
 - EP1360162 A1 20031112 DW2003-77 Ger
 FD: Based on WO200264535 A, Based on WO200264535 A
 AP: 2002EP-0701274 20020213, 2002WO-EP01503 20020213
 - CZ200302187 A3 20031112 DW2003-79 Cze
 FD: Based on WO200264535 A
 AP: 2002WO-EP01503 20020213, 2003CZ-0002187 20020213
 - HU200303884 A2 20040301 DW2004-22 Hun
 FD: Based on WO200264535 A
 AP: 2002WO-EP01503 20020213, 2003HU-0003884 20020213
 - BR200207177 A 20040330 DW2004-24 Por
 FD: Based on WO200264535 A
 AP: 2002BR-0007177 20020213, 2002WO-EP01503 20020213
 - US20040073073 A1 20040415 DW2004-26 C07C-017/00 Eng

AP: 2002WO-EP01503 20020213, 2003US-0467599 20031121
 - AU2002234632 A1 20020828 DW2004-27 Eng
 FD: Based on WO200264535 A
 AP: 2002AU-0234632 20020213
 - KR2004002864 A 20040107 DW2004-33 C07C-017/156 Kor
 AP: 2003KR-0710580 20030812
 - JP2004522762 W 20040729 DW2004-52 Jpn 35p
 FD: Based on WO200264535 A
 AP: 2002JP-0564472 20020213, 2002WO-EP01503 20020213
 - CN1505600 A 20040616 DW2004-65 Chi
 AP: 2002CN-0804900 20020213
 - ZA200305918 A 20041027 DW2004-74 C07C-000/00 Eng 22p
 AP: 2003ZA-0005918 20020213
 - MX2003007224 A1 20050301 DW2005-68 Spa
 FD: Based on WO200264535 A
 AP: 2002WO-EP01503 20020213, 2003MX-0007224 20030813
 - IN200300712 P3 20070126 DW2007-26 Eng
 AP: 2002WO-EP01503 20020213, 2003IN-MN00712 20030718
 - RU2304136 C2 20070810 DW2007-55 Rus
 FD: Based on WO200264535 A
 AP: 2002WO-EP01503 20020213, 2003RU-0127727 20020213
 - CN1308274C C 20070404 DW2007-57 C07C-017/00 Chi
 AP: 2002CN-0804900 20020213
 - EP1360162 B1 20070905 DW2007-60 Ger
 FD: Based on WO200264535 A, Based on WO200264535 A
 AP: 2002EP-0701274 20020213, 2002WO-EP01503 20020213
 - DE50210851 G 20071018 DW2007-70 Ger
 FD: Based on EP1360162 A, Based on WO200264535 A
 AP: 2002DE-5010851 20020213, 2002EP-0701274 20020213, 2002WO-EP01503
 20020213
 - ES2289078 T3 20080201 DW2008-13 Spa
 FD: Based on EP1360162 A
 AP: 2002EP-0701274 20020213
 PR - 2001DE-1007089 20010213
 IC - C07C-000/00; C07C-017/156; C07C-019/045; B01J-008/24; C07B-061/00;
 C07C-017/00; C07C-019/00
 ICAA- C07C-017/156 [2006-01 A F I B - -]; C07C-017/156 [2006-01 A F I - - -];
 B01J-008/24 [2006-01 A L I B - -]; C07B-061/00 [2006-01 A L I R - -];
 C07C-017/156 [2006-01 A - I R - -]; C07C-019/045 [2006-01 A L I R - -];
 C07C-019/045 [2006-01 A L I B - -]; C07C-019/045 [2006-01 A L I - - -]
 ICCA- C07C-017/00 [2006 C F I B - -]; B01J-008/24 [2006 C L I B - -];
 C07B-061/00 [2006 C L I R - -]; C07C-017/00 [2006 C - I R - -];
 C07C-017/00 [2006 C - I B - -]; C07C-017/00 [2006 C - I - - -];
 C07C-019/00 [2006 C L I B - -]; C07C-019/00 [2006 C L I R - -];
 C07C-019/00 [2006 C - I B - -]; C07C-019/00 [2006 C - I - - -]
 EC - C07C-017/156+19/045
 PCL - 570203000
 DS - WO200264535
 National States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO
 CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
 KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL
 PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
 Regional States: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE
 LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW
 - EP1360162
 Regional States: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU
 LV MC MK NL PT RO SE SI TR
 - EP1360162
 Regional States: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL
 PT RO SE TR
 AB - WO2002064535 A
 NOVELTY: The production of 1,2-dichloroethane, by reaction of ethene

with hydrogen chloride and an oxygen containing gas in an oxychlorination reactor by formation of a reaction gas, comprises filtration of the reaction gas outside of the oxychlorination reactor by means of at least one filter.

- DESCRIPTION: An INDEPENDENT CLAIM is included for a device for the production of 1,2-dichloroethane comprising an oxychlorination reactor and an external filter.
- USE: The process is useful for the production of 1,2-dichloroethane.
- ADVANTAGE: The process has improved recovery of catalyst fines and improved separation of dibenzo-p-dioxin/furan byproducts.
- DESCRIPTION OF DRAWING(S):
- The drawing is a schematic diagram of the process.
- Oxychlorination reactor (3)
- Filter (6)

EAB - (WO2002064535 A1)

The invention relates to a method and a device for producing 1,2-dichloroethane by reacting ethylene with hydrogen chloride and an oxygen-containing gas in an oxychlorination reactor having a fluidised bed, in order to form a reaction gas. Said reaction gas is filtered outside the oxychlorination reactor by means of at least one filter candle.

- (EP1360162 A1)

The invention relates to a method and a device for producing 1,2-dichloroethane by reacting ethylene with hydrogen chloride and an oxygen-containing gas in an oxychlorination reactor having a fluidised bed, in order to form a reaction gas. Said reaction gas is filtered outside the oxychlorination reactor by means of at least one filter candle.

- (US20040073073 A1)

A process and an apparatus are described for the preparation of 1,2-dichloroethane by reacting ethene with hydrogen chloride and an oxygen-containing gas in an oxychlorination reactor by means of a fluidised bed with formation of a reaction gas, wherein the reactor gas is filtered outside the oxychlorination reactor by means of at least one filter candle.

FAB - (WO2002064535 A1)

L'invention concerne un procédé et un dispositif pour produire du 1,2-dichloréthane, selon lequel on met à réagir de l'éthylène avec du gaz chlorhydrique et un gaz contenant de l'oxygène dans un réacteur d'oxychloration à lit fluidisé, avec formation d'un gaz de réaction, qui est filtré par au moins une bougie filtrante à l'extérieur du réacteur d'oxychloration.

GAB - (WO2002064535 A1)

Es wird Verfahren und eine Vorrichtung zur Herstellung von 1,2-Dichlorethan durch Umsetzen von Ethen mit Chlorwasserstoff und einem Sauerstoff aufweisenden Gas in einem Oxichlorierungsreaktor mittels Wirbelschicht unter Bildung eines Reaktionsgases beschrieben, bei dem das Reaktorgas ausserhalb des Oxichlorierungsreaktors mittels mindestens einer Filterkerze gefiltert wird.

- (DE10107089 A1)

Es wird ein Verfahren und eine Vorrichtung zur Herstellung von 1,2-Dichlorethan durch Umsetzen von Ethen mit Chlorwasserstoff und einem Sauerstoff aufweisenden Gas in einem Oxichlorierungsreaktor mittels Wirbelschicht unter Bildung eines Reaktionsgases beschrieben, bei dem das Reaktorgas ausserhalb des Oxichlorierungsreaktors mittels mindestens einer Filterkerze gefiltert wird.

MC - CPI: E10-H03C4

BH - CHEMICAL PRODUCTS

- HALOGEN COMPOUNDS

- PETROLEUM REFINING AND PETROCHEM

RN - 1300-21-6*-P; 1746-01-6-P; 74-85-1-A; 7647-01-0-A

IT - ALLOY-N; ALLOY STEEL-N; ATMOSPHERIC PRESSURE-N; BED-N; CATALYST-N;

CERAMIC-N; CHLORINATION*-N; COLUMN-N; CONDENSATION-N; COOLING-N;
 COOLING EQUIPMENT-N; COOLING TOWER-N; CYCLE GAS-N; FABRIC-N; FERROUS
 ALLOY-N; FILTER-N; FILTRATION*-N; FLUID BED-N; FLUID FLOW-N; FLUIDIZED
 SYSTEM-N; FORCE-N; GAS-N; HALOGENATION*-N; HASTELLOY-N; INCONEL-N;
 INDUSTRIAL WATER-N; LIQUEFACTION-N; MICROSTRUCTURE-N; MONEL METAL-N;
 NONFERROUS ALLOY-N; OPERATING CONDITION-N; OXYCHLORINATION*-N;
 OXYHALOGENATION*-N; PARTICLE-N; PERMEABILITY-N; PHASE CHANGE-N;
 PHYSICAL PROPERTY-N; PHYSICAL SEPARATION*-N; PORE SIZE-N; POWDER-N;
 PRESSURE-N; PRESSURE 10 TO 150 PSIG-N; PROCESS STREAM-N; QUENCHING-N;
 REACTOR-N; RECYCLING-N; SEPARATION EQUIPMENT-N; SHEAR-N; STAINLESS
 STEEL-N; STEEL-N; STRESS-N; TEMPERATURE-N; TEMPERATURE 200 TO 300 C-N;
 WASTE MATERIAL-N; WASTE WATER-N; WATER-N; WIRE-N
 - C2-A; CHLORINE-A; ELEMENT-A; ETHYLENE-A; GROUP VIA-A; GROUP VIIA-A;
 HYDROCARBON-A; HYDROGEN-A; HYDROGEN CHLORIDE-A; IDE-A; MONOOLEFINIC-A;
 OXYGEN-A; SINGLE STRUCTURE TYPE-A; TERMINAL OLEFINIC-A; UNSATURATED
 CHAIN-A
 - 5 MEMBER RING-P; 6 MEMBER RING-P; BENZENE RING-P; BYPRODUCT-P; C12-P;
 C2*-P; CHLORINE ORGANIC-P; CHLOROHYDROCARBON*-P; COMPOUNDS-P;
 DICHLOROETHANE*-P; DIOXIN-P; ETHER-P; FUSED OR BRIDGED RING-P; HALOGEN
 ORGANIC-P; HALOHYDROCARBON*-P; HETEROCYCLIC-P; MONOOLEFINIC-P;
 MULTIOLEFINIC-P; SATURATED CHAIN*-P; SINGLE STRUCTURE TYPE*-P
 LM - DICHLOROETHANE-P
 - ETHYLENE-A
 - HYDROGEN CHLORIDE-A
 - ELEMENT-A; OXYGEN-A
 - CATALYST-N; PARTICLE-N; POWDER-N
 - BYPRODUCT-P; DIOXIN-P
 - 5 MEMBER RING-P; BYPRODUCT-P; COMPOUNDS-P; ETHER-P; HETEROCYCLIC-P;
 MULTIOLEFINIC-P
 - CERAMIC-N; PORE SIZE-N
 - PORE SIZE-N; STAINLESS STEEL-N
 - ALLOY-N; FABRIC-N; PORE SIZE-N
 - INCONEL-N; PORE SIZE-N
 - MONEL METAL-N; PORE SIZE-N
 - HASTELLOY-N; PORE SIZE-N
 UP - 2002-64
 UE - 2002-65; 2003-66; 2003-77; 2003-79; 2004-22; 2004-24; 2004-26; 2004-27;
 2004-33; 2004-52; 2004-65; 2004-74; 2005-68; 2007-26; 2007-55; 2007-57;
 2007-60; 2007-70; 2008-13
 UE4 - 2007-04; 2007-08; 2007-09; 2007-10; 2008-02
 UAPI- 2002-69

Searching

Basic Index (default index)

Search by	Index	Search Hints	Examples
API Index Words	/IW	Use to search individual words in the Index Terms field. Use the IT field with the NBR, MEM, and GET commands.	TREATING/IW
API Supplementary Words	/SW	Use to search keywords in this field. Terms are not from the API Thesaurus. Use the ST field the NBR, MEM, and GET commands.	/SW NYLON /SW UREA W INDEX

Other Indexes

API Cross Reference Accession Number	/AXR or /XR	The AXR field contains the API abstract number. API numbers are preceded by a non-searchable API prefix.	/AXR 9915404
Category Codes	/BH	The BH field contains the names of the API Abstracts Bulletins and API Section Heading within a Bulletin. Complete terms must be entered.	PETROLEUM PROCESSES/BH
API Index Terms	/IT	Use to search complete index terms. The IT field contains controlled vocabulary from the API Thesaurus. Terms can be searched with or without role qualifiers. The following roles are used: A – reactant P – product N – no role	PETROLEUM FRACTION/IT PETROLEUM FRACTION*/IT PETROLEUM FRACTION-A/IT ATMOSPHERIC RESIDUE*-A/IT LUBRICANT/INDUSTRIAL OIL/IT

Other Indexes (contd.)

API Supplementary Terms	/ST	Use to search keywords or phrases in this field. Terms are not from the API Thesaurus.	PERSTRACTION/ST /ST UREA INDEX
API Linked Terms	/LT	API linked terms are index terms which have been grouped together to express specific relationships. Use the L or P operator to qualify with /LT to retrieve associated terms. Role qualifiers may be used.	/LT BENZENE RING L SATURATED CHAIN /LT CATALYST-P P PLATINUM-P
Chemical Abstracts Registry Number	/RN	This field contains Chemical Abstracts Registry Numbers followed by a one-letter role indicator. Roles describe chemical reactions. Registry Numbers are searchable with or without roles. The following roles are used: A – reactant P – product N – no role	101-68-8/RN 101-68-8-N/RN
API Assigned Terms, Terms & Words	/AT	Terms are controlled vocabulary from the API Thesaurus. Use to search API index terms assigned by indexer, and not autoposted. Terms can be searched with or without role qualifiers. Use an asterisk to retrieve weighted terms.	NITROBENZENE/AT LUBRICANT STOCK*/AT LUBRICANT STOCK-P/AT
API Update Code	/UAPI	Search in the format YYYY-WW.	/UAPI 1999-22
Template Display		Use to isolate records with the API template.	TD=YES
Linked Manual Terms		This field contains API linked terms manually indexed, without autoposted terms.	LM=YES

Document Display

Superfields:

ABS AB EAB FAB GAB

AMS AM PI01 PI02 PI03 PI04 PI05 PI06 PI07 PI08 PI09 PI10 PI11 PI12 PI13 PI14 PI15 PI16
PI17 PI18 PI19 PI20 PI21 PI22 PI23 PI24 PI25 PI26 PI27 PI28 PI29 PI30 PI31 PI32 PI33
PI34 PI35 PI36 PI37 PI38 PI39 PI40

MALL M0 M1 M2 M3 M4 M5 M6

Described below are the print formats unique to WPAM containing API fields.

Formats with API Indexing

Format Fields

SC [SCAN] AN XR XA XP AXR FS DC TT AW NP NC AXR

TR [TEST] AN XR XA XP FS DC TT NP NC BH RN IT LT

MAXL AN XR XA XP TI DC AW PA IN NP NC PN PR IC PCL DS AB EAB FAB GAB TF MC BH
RN IT LT UP UE UAPI

Formats with API Indexing Templates

Format Fields

TRT AN XR AXR XA XP FS DC TT AW IC MC BH RN IT LM TD

MAXT AN XP AXR XA XP TI DC AW PA IN NP NC PN PR IC PCL DS AB EAB FAB GAB MC BH
RN IT LM TD UP UE UAPI

ALL AN XR AXR XA XP TI DC AW PA IN NP NC PN PR IC PCL DS AB EAB FAB GAB TF BH
RN IT TD LM LT MC KS AM PI01 PI02 PI03 PI04 PI05 PI06 PI07 PI08 PI09 PI10 PI11 PI12
PI13 PI14 PI15 PI16 PI17 PI18 PI19 PI20 PI21 PI22 PI23 PI24 PI25 PI26 PI27 PI28 PI29
PI30 PI31 PI32 PI33 PI34 PI35 PI36 PI37 PI38 PI39 PI40 M0 M1 M2 M3 M4 M5 M6 RR DR
CN KW KW2 KW3 KW4 UP UA UB UE UAPI

Creating User-Defined Formats

Subscribers should use TICO or TITL free formats to display title information, since the TI field does not automatically display in free formats for this database. (Note. The TICO and TITL formats are free for subscribers, but not for non-subscribers.)

To include the TI field in the free SCAN, TRIAL or TEST formats, subscribers can overwrite existing formats by creating customized formats with the FOR command.

Example: FOR SCAN AN XR XA XP FS DC TI AW NP NC

Other Display Options

Image Display: To display an image in a record, use the IMG parameter:

Displaying image: Add the IMG parameter to a display format or

Example: PRT MAXL IMG

Legal Feature: Display including corresponding Legal Status record(s):

LEGAL Display from LGST (Legal Status),

LEGALEP Display from the EPPATENT

LEGALUS Display from CRXX and LITA

LEGALIFI Display from CRXX

LEGALALERT Display from LITA

LEGALALL Display from LGST, EPPATENT, CRXX and LITA

Example: PRT ALL LEGALALL

Cited Feature: Display including EP, PCT, FR and US patent and literature citations:

CITEP Display citations from EPPATENT

CITEPCT Display citations from WOPATENT

CITFR Display citations from FRPATENT

CITUS Display citations from USPAT

CITEPPCT Display citations from EPPATENT and WOPATENT

CITALL Display citations from EPPATENT, WOPATENT, FRPATENT, and USPAT

Example: PRT MXR CITUS

Full-text Feature: Display corresponding US, EP, FR and PCT full-text records.

FULLEPO Display full text from EPAPAT

FULLWO Display full text from PCTFULL

FULLUS Display full text from USPAT

FULLTEXT Display full text from EPAPAT, PCTFULL, USPAT and FRFULL

FULLCLMS Display the full claims from EPAPAT, PCTFULL, USPAT and FRFULL

Example: PRT FULL FULLTEXT

PATVIEW: To display the details for each member of the family adding the PATVIEW option will display the WPAM record followed by the DWPIMV records. By default the PATVIEW display is STDR in both WPAM and DWPIMV

PRT PATVIEW Displays the WPAM record in STDR format followed by the record(s) from DWPIMV STDR format

PRT <format> PATVIEW Display the WPAM record in a predefined format followed by the records from DWPIMV in STDR format

Example: PRT TITL PATVIEW

PRT PATVIEW (<format>) Displays the WPAM record in STDR format followed by the record(s) from DWPIMV in a predefined format. **The 2nd format must be placed between brackets ().**

Example: PRT PATVIEW (ALL)

PRT <format> PATVIEW (<format>) Display the WPAM in a predefined format followed by the record(s) from DWPIMV in a predefined format. **The 2nd format must be placed between brackets ().**

Example: PRT BASC PATVIEW (ALL)

SDI/Current Awareness

To create an SDI to run only on the API update:

SDI [searchname] ; surv uapi

List of Fields

All these fields may be used with the PRT, BR and =YES commands.

AXR	API Cross Reference Accession Number
FS	File Segment
BH	Category Codes
IT	API Index Terms
IW	API Index Words
AT	API Assigned Terms & Words
ST	API Supplementary Terms
SW	API Supplementary Words
RN	Chemical Abstracts Registry Number
LT	API Linked Terms
LM	Linked Manual Terms
TD	Template Display
UAPI	API Update Code