

Base : FAMPAT

SEARCH STRATEGY

SS Results

7	2	6 AND (SOLID D HETEROGENEOUS D HYDROGENATION D CATALYST)
6	3352	4 AND 5
5	48859663	PD<20150417
4	3826	..SIMILARITY SS 3 RANKED 2
3	6	1 AND 2
2	80	(CATALYTIC D HYDRODECHLORINATION)
1	965	((PURIF+ OR DEPURAT+) AND (MONOCHLOROACETIC D ACID) AND (DICHLOROACETIC D ACID))/TI/AB/IW/CLMS/DESC/ODES/OBJ/ICLM/KEYW/TX

6 Documents

Publication numbers	Title	Current assignees
WO201357125 A1	Process for the purification of a liquid feed comprising mca and dca	AKZO NOBEL
WO2016146556 A1	Process for the purification of monochloroacetic acid	AKZO NOBEL, ...
WO2016198495 A1	Process for the hydrodechlorination of a feed comprising dichloroacetic acid	AKZO NOBEL, ...
WO201357126 A1	Process for the hydrodechlorination of a liquid feed comprising dichloroacetic acid	AKZO NOBEL
WO201609644 A1	Input device, biosensor, program, computer-readable medium, and mode setting method	ASAHI KASEI
CN105503574 A	Hydrodechlorination method for producing high-purity monochloro acetic acid	XI AN CATALYST NEW MATERIALS

Family 1/6 - FAMPAT - ©Questel

Title

(EP2748138)

Process for the purification of a liquid feed comprising mca and dca

Images

Densicat®

Publication data including kind & date

WO2013057125	A1	2013-04-25	WO201357125				
AU2012324957	A1	2014-03-20	AU2012324957				
CN103687840	A	2014-03-26	CN103687840				
MX2014004617	A	2014-05-12	MX2014004617				
CO6950503	A2	2014-05-20	CO6950503				
BR112014008207	A1	2014-05-27	BR112014008207				
AR088478	A1	2014-06-11	AR--88478				
EP2748138	A1	2014-07-02	EP2748138				
US20140275625	A1	2014-09-18	US20140275625				
JP2014530833	A	2014-11-20	JP2014530833				
IN0409/MUMNP/2014	A	2014-12-05	IN2014MN00409				
ZA201402208	B	2015-04-29	ZA201402208				
AU2012324957	B2	2015-08-20	AU2012324957				
RU2014118949	A	2015-11-27	RU2014118949				
JP5829340	B2	2015-12-09	JP5829340				
TH149861	A	2016-05-10	TH-149861				
CN103687840	B	2016-11-23	CN103687840B				
US9505694	B2	2016-11-29	US9505694				
RU2609408	C2	2017-02-01	RU2609408				
MX347055	B	2017-04-10	MX-347055				
BR112014008207	A2	2017-04-11	BR112014008207				
EP2748138	B1	2017-04-26	EP2748138				
ES2624144	T3	2017-07-13	ES2624144				
DK2748138	T3	2017-08-21	DK2748138T				
PL2748138	T3	2017-09-29	PL2748138				

Abstract

(EP2748138)

The present invention pertains to a process for the purification of a substantially water-free liquid feed comprising monochloroacetic acid, dichloroacetic acid, optionally acid chlorides, optionally anhydrides, and optionally acetic acid, which comprises the steps of (a) adding water to the liquid feed so that a liquid feed is obtained comprising between 0.01 and 5% by weight of water, based on the total weight of the liquid feed, and (b) subsequently subjecting the liquid feed obtained in step (a) to a catalytic hydrodechlorination step by contacting it with a source of hydrogen to convert the dichloroacetic acid into monochloroacetic acid in the presence of a solid heterogeneous hydrogenation catalyst comprising one or more metals of Group VIII of the Periodic Table of the Elements deposited on a carrier.

Inventors

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Latest standardized assignees - inventors removed

AKZO NOBEL

Publication dates

2013-04-25

2014-03-20

2014-03-26

2014-05-12

2014-05-20

2014-05-27

2014-06-11

2014-07-02

2014-09-18

2014-11-20

2014-12-05

2015-04-29

2015-08-20

2015-11-27

2015-12-09

2016-05-10

2016-11-23

2016-11-29

2017-02-01

2017-04-10

2017-04-11

2017-04-26

2017-07-13

2017-08-21

2017-09-29

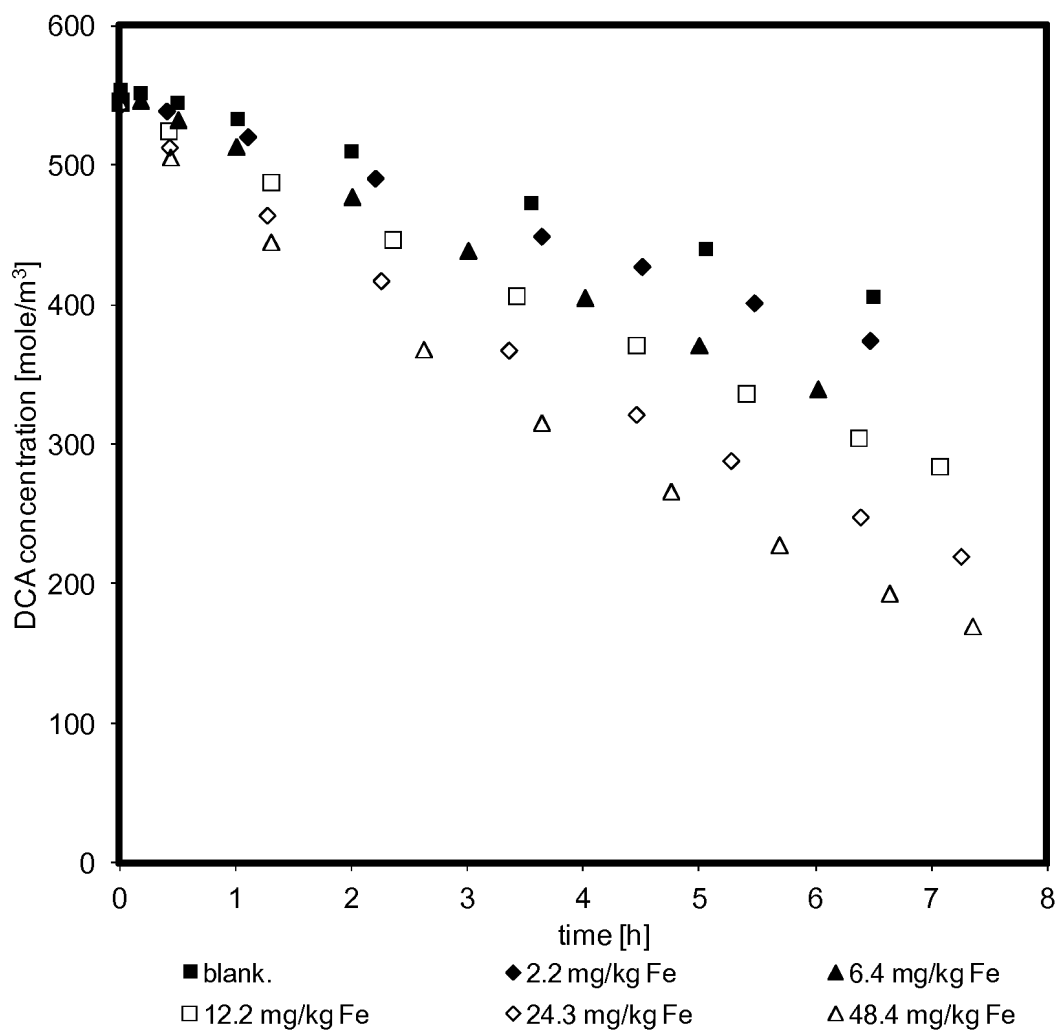
Family 2/6 - FAMPAT - ©Questel

Title

(EP3271322)

Process for the purification of monochloroacetic acid

Images



Publication data including kind & date

WO2016146556	A1	2016-09-22	WO2016146556
CN106488903	A	2017-03-08	CN106488903
AR103931	A1	2017-06-14	AR-103931
AU2016232404	A1	2017-08-24	AU2016232404
BR112017018047	A1	2017-09-05	BR112017018047
MX2017011678	A	2017-11-06	MX2017011678
IN201717028563	A	2017-11-10	IN201717028563
EP3271322	A1	2018-01-24	EP3271322
JP2018509410	A	2018-04-05	JP2018509410
BR112017018047	A2	2018-04-10	BR112017018047
US20180273462	A1	2018-09-27	US20180273462



Abstract

(EP3271322)

The present invention pertains to a process for the purification of a feed comprising monochloroacetic acid and dichloroacetic acid wherein the feed is subjected to a catalytic hydrodechlorination step by contacting it with a source of hydrogen to convert dichloroacetic acid into monochloroacetic acid in the presence of a solid heterogeneous hydrogenation catalyst comprising a Group VIII noble metal on a carrier under hydrodechlorination conditions, wherein the reaction is carried out in the presence of a catalyst enhancer which comprises a salt of a metal selected from the group of non-noble

metals of Group VIII, Group VIB, Group VIIB, and Group IIB. It was found that the presence of a catalyst enhancer leads to reduced deactivation of the catalyst and/or increased activity of the spent catalyst. This allows longer production cycles, less downtime, and lower formation of side products. The catalyst enhancer preferably comprises one or more salts of one or more of nickel, cobalt, or iron, more in particular of iron. The salts preferably comprise one or more of chloride salts and acetate salts.

Inventors

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DE GROOT MATHEUS THEODORUS

Latest standardized assignees - inventors removed

AKZO NOBEL

STARFRUIT US MERGER SUB **2**

AKZO NOBEL SURFACE CHEMISTRY

STARFRUIT US MERGER SUB **1**

Publication dates

2016-09-22

2017-03-08

2017-06-14

2017-08-24

2017-09-05

2017-11-06

2017-11-10

2018-01-24

2018-04-05

2018-04-10

2018-09-27

Family 3/6 - FAMPAT - ©Questel

Title

(EP3307703)

Process for the hydrodechlorination of a feed comprising dichloroacetic acid

Images

Bialecki

Publication data including kind & date

WO2016198495	A1	2016-12-15	WO2016198495
CN106795085	A	2017-05-31	CN106795085
AR104892	A1	2017-08-23	AR-104892
AU2016277357	A1	2017-11-30	AU2016277357
IN201717044684	A	2018-01-12	IN201717044684
CO2017011626	A2	2018-01-31	CO2017011626
BR112017024863	A1	2018-03-20	BR112017024863
EP3307703	A1	2018-04-18	EP3307703
MX2017015733	A	2018-04-26	MX2017015733



US20180170852	A1	2018-06-21	US20180170852
JP2018518482	A	2018-07-12	JP2018518482
BR112017024863	A2	2018-08-21	BR112017024863

**Abstract**

(EP3307703)

The present invention is directed to a process for catalytic hydrodechlorination of dichloroacetic acid, wherein hydrogen gas is contacted with a liquid feed comprising dichloroacetic acid and monochloroacetic acid to form a product stream comprising monochloroacetic acid and an off gas stream comprising hydrogen chloride and hydrogen, and wherein the product stream is contacted with nitrogen gas so as to remove hydrogen gas present in the product stream.

Inventors

TOLLIN LARS MAGNUS

KOOIJMAN CORNELIS

Latest standardized assignees - inventors removed

AKZO NOBEL

STARFRUIT US MERGER SUB [2](#)

AKZO NOBEL SURFACE CHEMISTRY

STARFRUIT US MERGER SUB [1](#)**Publication dates**

2016-12-15

2017-05-31

2017-08-23

2017-11-30

2018-01-12

2018-01-31

2018-03-20

2018-04-18

2018-04-26

2018-06-21

2018-07-12

2018-08-21

Family 4/6 - FAMPAT - ©Questel

Title

(EP2748139)

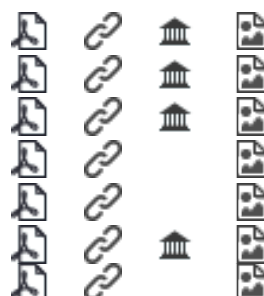
Process for the hydrodechlorination of a liquid feed comprising dichloroacetic acid

Images

Densicat®

Publication data including kind & date

WO2013057126	A1	2013-04-25	WO201357126
CN103649039	A	2014-03-19	CN103649039
AU2012324958	A1	2014-03-20	AU2012324958
MX2014004616	A	2014-05-12	MX2014004616
CO6950504	A2	2014-05-20	CO6950504
BR112014008599	A1	2014-05-27	BR112014008599



AR088477	A1	2014-06-11	AR--88477				
EP2748139	A1	2014-07-02	EP2748139				
JP2014530834	A	2014-11-20	JP2014530834				
US20140357892	A1	2014-12-04	US20140357892				
ZA201402210	B	2015-04-29	ZA201402210				
IN3586CHN2014	A	2015-10-09	IN2014CN03586				
RU2014118948	A	2015-11-27	RU2014118948				
CN103649039	B	2016-01-20	CN103649039B				
JP5870199	B2	2016-02-24	JP5870199				
TH150556	A	2016-03-14	TH-150556				
AU2012324958	B2	2016-03-17	AU2012324958				
CN105646190	A	2016-06-08	CN105646190				
US9505693	B2	2016-11-29	US9505693				
RU2608630	C2	2017-01-23	RU2608630				
BR112014008599	A2	2017-04-25	BR112014008599				
EP2748139	B1	2017-04-26	EP2748139				
ES2625050	T3	2017-07-18	ES2625050				
DK2748139	T3	2017-08-07	DK2748139T				
MX349701	B	2017-08-08	MX-349701				
PL2748139	T3	2017-08-31	PL2748139				

Abstract

(EP2748139)

The process of the present invention pertains to a process wherein a liquid feed comprising monochloroacetic acid, dichloroacetic acid, and optionally acetic acid and/or trichloroacetic acid is subjected to a catalytic hydrodechlorination step by contacting it with a source of hydrogen in the presence of a solid heterogeneous hydrogenation catalyst situated in a fixed catalyst bed, wherein the liquid feed is fed to the top of a vertical tubular reactor at a superficial mass velocity of between and 10 kg/s per square meter of the horizontal cross-section of the vertical tubular reactor and a rate of between 250 and 3,000 kg/hr per m of said catalyst bed, wherein the source of hydrogen is fed to the top or bottom of the vertical tubular reactor at a rate of between 0.025 to 0.25 Nm/s per square meter of the horizontal cross-section of the vertical tubular reactor, so as to obtain an average axial pressure gradient of at least 2 kPa per meter of said catalyst bed, and wherein the temperature in the top of the vertical tubular reactor is between 100 and 200°C, and wherein the pressure in the top of the vertical tubular reactor is between 0.2 and 1.0 MPa.

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Latest standardized assignees - inventors removed

AKZO NOBEL

Publication dates

2013-04-25

2014-03-19

2014-03-20

2014-05-12

2014-05-20

2014-05-27

2014-06-11
2014-07-02
2014-11-20
2014-12-04
2015-04-29
2015-10-09
2015-11-27
2016-01-20
2016-02-24
2016-03-14
2016-03-17
2016-06-08
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2017-04-26
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2017-08-31

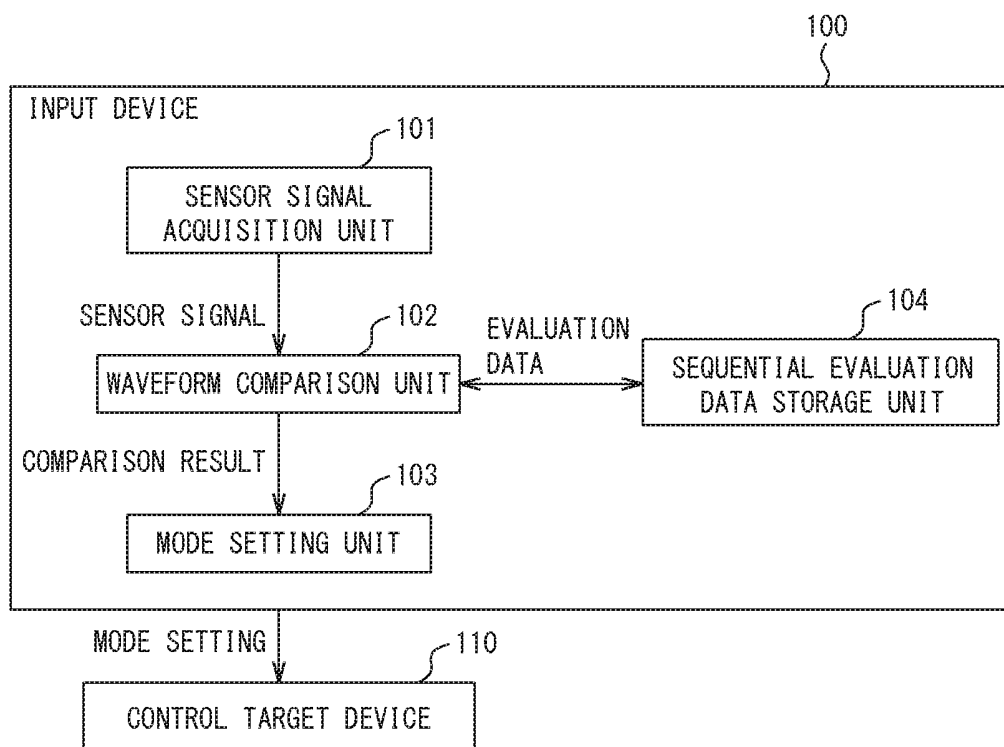
Family 5/6 - FAMPAT - ©Questel

Title

(WO201609644)

Input device, biosensor, program, computer-readable medium, and mode setting method

Images



Publication data including kind & date

WO2016009644	A1	2016-01-21	WO201609644
CN106489111	A	2017-03-08	CN106489111



US20170083091	A1	2017-03-23	US20170083091				
DE112015003279	T5	2017-04-06	DE112015003279				
JPWO2016009644	A1	2017-04-27	JP2016009644W				
JP6244026	B2	2017-12-06	JP6244026				

Abstract

(WO201609644)

The purpose of the present invention is to provide an input device, a biosensor, a program, a computer-readable medium, and a mode setting method whereby an error in determination as to whether a mode of an object to be controlled is to be set can be decreased. An input device (100) is provided with: a sensor signal acquisition unit (101) that acquires a sensor signal; a waveform comparison unit (102) that compares waveforms of two or more time intervals of the sensor signal; and a mode setting unit (103) that sets a mode of a device (110) as the object to be controlled on the basis of a comparison result from the waveform comparison unit (102).

Inventors

OKAMOTO AKIHIRO

Latest standardized assignees - inventors removed

ASAHI KASEI

Publication dates

2016-01-21

2017-03-08

2017-03-23

2017-04-06

2017-04-27

2017-12-06

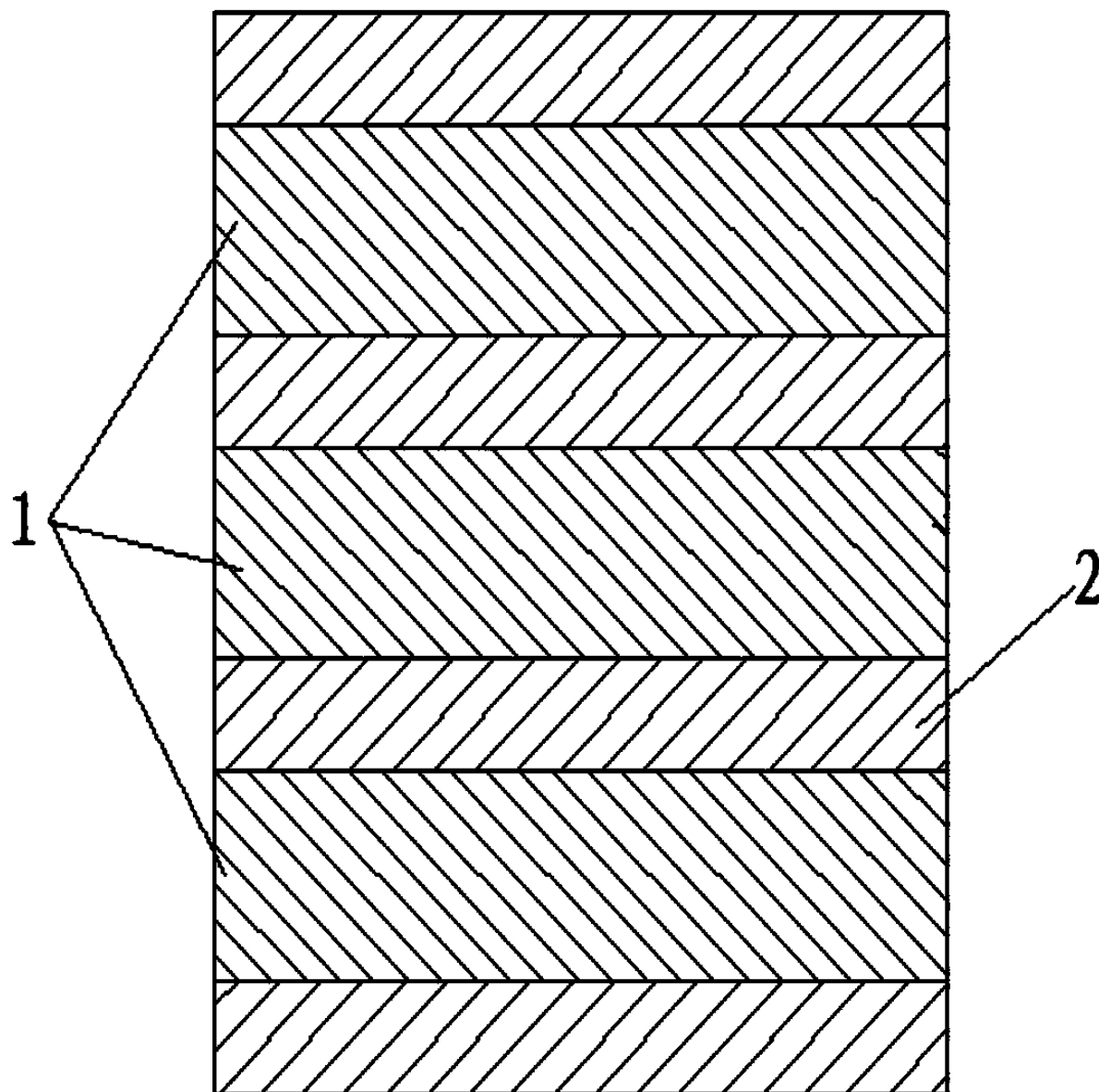
Family 6/6 - FAMPAT - ©Questel

Title

(CN105503574)

Hydrodechlorination method for producing high-purity monochloro acetic acid

Images

**Publication data including kind & date**[CN105503574](#)

A

2016-04-20

CN105503574

**Abstract**

(CN105503574)

The invention discloses a hydrodechlorination method for producing high-purity monochloro acetic acid. The Hydrodechlorination method comprises the following steps: **1**, filling a fixed bed reactor with a catalyst bed; **2**, uniformly mixing hydrogen and a reaction mixed solution in a gas-liquid mixer, and injecting the obtained mixture into a heat exchanger to be pre-heated so as to obtain a reaction raw material; 3, discharging air in the fixed bed reactor by the nitrogen gas pump-in method, then discharging nitrogen gas in the fixed bed reactor by the hydrogen pump-in method, and injecting the reaction raw material into the fixed bed reactor for hydrodechlorination reaction so as to obtain an intermediate product; 4, performing distillation separation on the intermediate product to obtain monochloro acetic acid with the quality purity not less than 99.5%. The method continually and selectively conducts catalytic hydrogenation to remove dichloroacetic acid in the reaction mixed solution, inhibits formation of a by-product (acetic acid) in the intermediate product to be within an acceptable range, and reduces the mass content of dichloroacetic acid in the obtained by-products to be 0.5% or below.

Inventors

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Latest standardized assignees - inventors removed

XI AN CATALYST NEW MATERIALS

Publication dates

2016-04-20