

Diego Gonzalez Castillo

1) Family number: 66638395 (US2017231281 AA)

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Title: VAPORIZER DEVICES WITH BLOW DISCRIMINATION

Abstract: Methods and apparatuses for discriminating between user blowing and drawing (sucking) in an electronic vaporization device. Described herein are electronic aerosol devices and methods of controlling or operating them which can accurately differentiate between blowing and drawing (sucking) through the mouthpiece and adjust the control of the vaporizer accordingly.

Classifications:

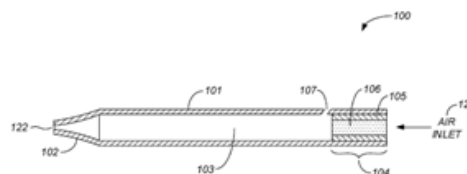
International (IPC 8-9): A24D1/14 A24F A24F47/00 G01L9/00
G01L9/12 H05B1/02

International (IPC 1-7): A24F47/00

CPC: A24D1/14 A24F40/51 A24F47/008 G01L9/0072 G01L9/12
H05B1/0227 H05B1/0244

US: 1/1 131/328

PatBase - US2017231281_AA



Family:

Publication number	Publication date	Application number	Application date
BR112018016413 A2	20181226	BR20181116413	20170210
CL2018002292 A1	20181221	CL20180002292	20180810
CO20180009343 A2	20180920	CO20180009343	20170210
DE202017006972 U1	20190307	DE201720006972U	20170210
EA201891790 A1	20190228	EA20180091790	20170210
EP3413735 A1	20181219	EP20170750885	20170210
EP3413735 A4	20190925	EP20170750885	20170210
HK40002132 A1	20200313	HK20190125439	20190618
MX2018009704 A1	20190708	MX20180009704	20170210
SG11201806807U A1	20180927	SG20181106807	20170210
US2019104767 AA	20190411	US20170077731	20170210
US10130123 BB	20181120	US20170430317	20170210
US2017231281 AA	20170817	US20170430317	20170210
WO17139662 A1	20170817	WO2017US17496	20170210

Priority:

US20130837438	20130315	US20130920225P	20131223	US20140936593P	20140206
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WO2017US17496	20170210	EP20170750885	20170210	US20170430317	20170210
US20170077731	20170210				

Probable Assignee: JUUL LABS INC

Assignee(s): (std): JUUL LABS INC ; PAX LABS INC

Assignee(s): CORTLAND CAPITAL MARKET SERVICES LLC ; JUUL LABS ; MORENSTEIN CRONAN LLC ; MUFG UNION BANK NA

Inventor(s): (std): CHRISTENSEN STEVEN ; HATTON NICHOLAS ; HATTON NICHOLAS JAY ; NICHOLAS JAY HATTON ; STEVEN CHRISTENSEN

Agent(s): JORGE GARAY PEREZ; MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO PC; MOUTON NICHOLAS P; ROBIN BRIDGE AND JOHN LIU; THUM BERNHARD

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 73126577 (US2019159519 AA)

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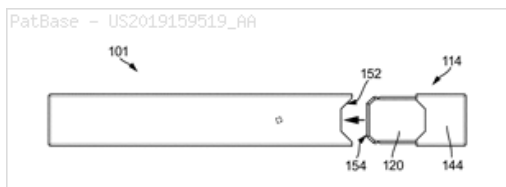
Title: PUFF SENSING AND POWER CIRCUITRY FOR VAPORIZER DEVICES

Abstract: Vaporizer device features capable of improving on current approaches to mitigating against device damage or inoperability occurring from liquid exposure (e.g. exposure to liquid vaporizable material possibly affecting a pressure sensor, internal electronic circuitry, and/or electrical contact pins) are described.

Classifications:

International (IPC 8-9): A24F A24F40/40 A24F40/50 A24F40/51
A24F47/00 A24F7/00 A61M11/04 A61M15/06 B25J19/02 F25B39/00
H03K17/96 H05B1/02 H05B3/00 H05B3/44

CPC: A24F40/10 A24F40/51 A24F40/53 A24F47/008 A24F7/00
A61M11/042 A61M15/06 A61M2016/0015 H03K17/964 H05B1/0297
H05B3/0019 H05B3/44 F25B39/00 A61M2205/3331 A61M2205/3653
US: 1/1



Family:

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AU2018372233 AA	20200709	AU20180372233	20181126
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KR20190060708 A	20190603	KR20180146384	20181123
SG11202004753X A1	20200629	SG20201104753	20181126
TW201929699 A	20190801	TW20180141924	20181123
US2019159519 AA	20190530	US20180200465	20181126
WO19104277 A1	20190531	WO2018US62467	20181126

Priority:

US20170590518P 20171124 US20170593801P 20171201 KR20180146384 20181123
WO2018US62467 20181126 US20180200465 20181126

Probable Assignee: JUUL LABS INC

Assignee(s): (std): JUUL LABS INC

Assignee(s): BOWEN ADAM ; CORTLAND CAPITAL MARKET SERVICES LLC ; HATTON NICHOLAS J ; LOMELI KEVIN ; MUFU UNION BANK NA ; TASCHNER MATTHEW J ; WEISS ALEXANDER ; WHITE BRYAN

Inventor(s): (std): ADAM BOWEN ; ALEXANDER WEISS ; BOWEN ADAM ; BRYAN WHITE ; CANTWELL ALEX ; HATTON NICHOLAS ; HATTON NICHOLAS J ; HATTON NICHOLAS JAY ; KEVIN LOMELI ; LOMELI KEVIN ; MATTHEW TASCHNER ; NICHOLAS JAY HATTON ; RIOS MATTHEW ; TASCHNER MATTHEW ; TASCHNER MATTHEW J ; WEISS ALEXANDER ; WHITE BRYAN

Inventor(s): NICHOLAS J HATTON

Agent(s): BRION RAFFOUL ; CABINET NONY ; CLEARY JAMES P ET AL ; MAROLITA SETIATI ; SPRUSON AND FERGUSON ; THUM BERNHARD

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 76791468 (US2019364957 AA)

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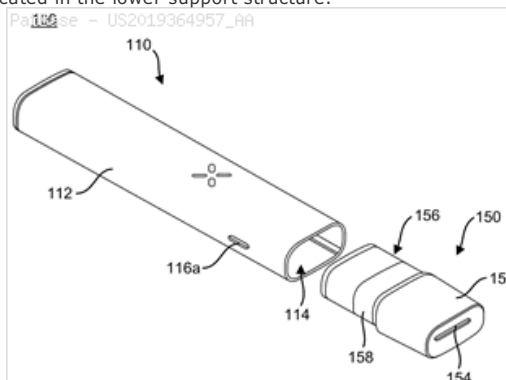
Title: VAPORIZER CARTRIDGE

Abstract: Features relating to a cartridge for use with a vaporizer body are provided. The cartridge mates with the vaporizer body in a cartridge receptacle. The cartridge may include a cartridge body defining a reservoir configured to contain vaporizable material; a mouthpiece coupled to a proximal end region of the cartridge body; at least one proximal absorbent pad wedged within an internal volume of the mouthpiece; a mouthpiece seal with sealing ribs; a cannula defining a vaporization chamber extending through the cartridge body; a resistive heating element; a porous wick configured to draw the vaporizable material in the reservoir towards the vaporization chamber; an internal sealing gasket positioned in a distal end region of the cartridge body; a lower support structure positioned in the distal end region of the cartridge body; and at least one distal absorbent pad configured to wedge within a recess located in the lower support structure.

Classifications:

International (IPC 8-9): A24D1/14 A24F47/00 A24F7/00 A61M11/04 A61M15/00 G01K1/00 G01N35/00 G08B6/00 H01R13/52 H02J7/00 H05B1/02 H05B3/00 H05K1/14 H05K1/18

CPC: A24D1/14 A24F47/008 A24F7/00 A61M11/042 A61M15/0028 A61M2205/8206 F16J15/02 F17C9/02 G01K1/00 G01L13/00 G01N35/00732 G01P15/00 G08B6/00 H01Q1/2283 H01R13/521 H02J7/00 H05B1/0244 H05B3/0014 H05B3/0019 H05K1/147 H05K1/189 H05K2201/10106 H05K2201/10121 H05K2201/10151 H05K2201/10189 H05K2201/10318



Family:

Publication number	Publication date	Application number	Application date
TW202011840 A	20200401	TW20190118643	20190529
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Priority:

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Probable Assignee: JUUL LABS INC

Assignee(s): (std): PAX LABS INC

Assignee(s): CORTLAND CAPITAL MARKET SERVICES LLC ; JUUL LABS INC ; MUFG UNION BANK NA

Inventor(s): (std): CARLBERG DAVID ; CHANG YEN JEN ; FU JOSHUA ; GERMANN THOMAS ; HATTON NICHOLAS J ; LI CHEN YU ; LOENTAL CHRISTOPHER ; MARKOVIC MARKO ; NARIYOSHI ROBYN ; RINGROSE ALEXANDER ; SCHAEFER ANDREAS ; SPRATT DEVIN ; TSENG BARRY ; TSENG BARRY BEI RUI ; WANG PRINCE ; WANG PRINCE PIN SI ; WEISS ALEXANDER

Agent(s): WEINLICK ERIN P ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 75589821 (US2020000146 AA)

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Title: VAPORIZER DEVICE

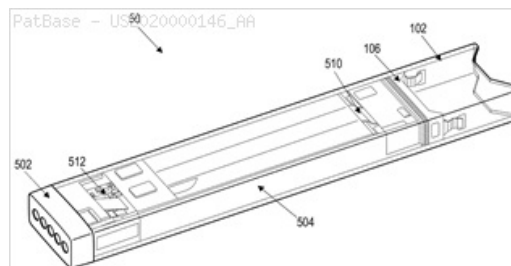
Abstract: A vaporizer device may include various modular components. The vaporizer device may include a first subassembly. The first subassembly may include a cartridge connector that secures a vaporizer cartridge to the vaporizer device and includes at least two receptacle contacts that electrically communicate with the vaporizer cartridge. The vaporizer device may include a second subassembly. The second subassembly may include a skeleton defining a rigid tray that retains at least a power source. The vaporizer device may also include a third subassembly. The third subassembly may include a plurality of charging contacts that supply power to the power source, and an end cap that encloses an end of the vaporizer device.

Classifications:

International (IPC 8-9): A24F40/40 A24F40/90 A24F47/00

A61M11/00 A61M11/04 A61M15/06 H01R13/62 H01R13/66 H01R43/26 H02J7/00

CPC: A24F40/40 A24F40/90 A24F47/008 A61M11/042 A61M15/06 A61M2205/3331 A61M2205/3368 A61M2205/52 A61M2205/583 A61M2205/587 A61M2205/8206 A61M2207/00 A24F40/10 A24F40/70 H01R13/2457 H01R13/6205 H01R13/6683 H01R43/26 H02J7/0042 H02J7/0045 H02J7/0047



Family:

Publication number	Publication date	Application number	Application date
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GB2577357 A1	20200325	GB20190009243	20190627
US2020000146 AA	20200102	US20190455680	20190627
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Priority:

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US20190824725P 20190327 US20190449278 20190621 US20190455680 20190627
US20190455629 20190627

Probable Assignee: JUUL LABS INC

Assignee(s): (std): JUUL LABS INC

Assignee(s): ANDERSON SAMUEL ; CHANG WEI LING ; CHEUNG BRANDON ; CHRISTENSEN STEVEN ; CHUN JOSEPH ; CORTLAND CAPITAL MARKET SERVICES LLC ; FISHER JOSEPH R JR ; HATTON NICHOLAS J ; LOMELI KEVIN ; MONSEES JAMES ; MUFG UNION BANK NA ; MURPHY ANDREW L ; O MALLEY CLAIRE ; PELOCHINO JOHN R ; PHAM HUGH ; RAHANE VIPUL V ; TASCHNER MATTHEW J ; VALENTINE VAL ; WONG KENNETH

Inventor(s): (std): ANDERSON SAMUEL ; ANDERSON SAMUEL C ; ANDREW L MURPHY ; BRANDON CHEUNG ; CHANG WEI LING ; CHEUNG BRANDON ; CHRISTENSEN STEVEN ; CHUN JOSEPH ; CLAIRE O MALLEY ; FISHER JOSEPH ; FISHER JOSEPH R ; FISHER JOSEPH R JR ; FISHER JR JOSEPH R ; HATTON NICHOLAS ; HATTON NICHOLAS J ; HUGH PHAM ; JAMES MONSEES ; JOHN R PELOCHINO ; JOSEPH CHUN ; JOSEPH R FISHER JR ; KENNETH WONG ; KEVIN LOMELI ; LOMELI KEVIN ; MATTHEW J TASCHNER ; MONSEES JAMES ; MURPHY ANDREW ; MURPHY ANDREW L ; NICHOLAS J HATTON ; O MALLEY CLAIRE ; PELOCHINO JOHN ; PELOCHINO JOHN R ; PHAM HUGH ; RAHANE VIPUL ; RAHANE VIPUL V ; SAMUEL C ANDERSON ; STEVEN CHRISTENSEN ; TASCHNER MATTHEW ; TASCHNER MATTHEW J ; VAL VALENTINE ; VALENTINE VAL ; VIPUL V RAHANE ; WEI LING CHANG ; WONG KENNETH

Inventor(s): FISHER JR ; JOSEPH R JR FISHER ; SAMUEL ANDERSON

Agent(s): BERK JOSHUA D ET AL; BRION RAFFOUL; CABINET NONY; SMART AND BIGGAR LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

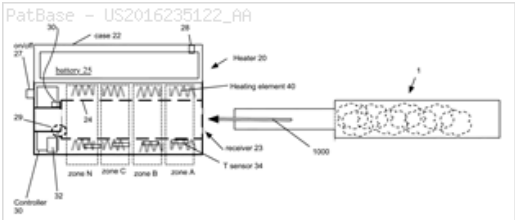
5) Family number: 63189895 (US2016235122 AA) © PatBase

Title: VAPORIZER AND VAPORIZER CARTRIDGES

Abstract: Disclosed herein are methods and systems to vaporize extract, plant material containing organic material and the like, including utilizing a cartridge which may be disposable. The cartridge may be heated in zones or portions. The cartridge may form the inhalation pathway thereby reducing the accumulation of dirt and odor in the heating device. One disclosed vaporizer system has a base with a cartridge interface, a heater element, an on/off switch, a battery, a temperature sensor in proximity to the heater element; a controller in signal communication with the heater element, battery, temperature sensor and the on/off switch; that mates with a disposable cartridge.

Classifications:

International (IPC 8-9): A24B15/16 A24F47/00 A61M11/00 A61M11/04 A61M15/00 A61M15/06 A61M15/08 A61M16/00 A61M21/00 A61M21/02 H05B1/02 H05B3/00 H05B3/14 H05B3/42 **CPC:** A24B15/16 A24F47/008 H05B1/0225 H05B1/0244 H05B2203/014 H05B2203/021 H05B2203/022 H05B3/146 H05B3/42 A61M11/042 A61M2021/0016 A61M21/02 A61M2205/3334 A61M2205/3368 A61M2205/3584 A61M2205/3592 A61M2205/584 A61M2205/587 A61M2205/7545 A61M2205/8206 H05B1/0252 A61M15/06 A61M15/08 A61M2205/3569 A61M2205/3653 A61M2205/505 A61M2205/581 A61M2205/582 A61M2205/583 **US:** 1/1 131/328 131/329 392/390 600/27



Family:

Publication number	Publication date	Application number	Application date
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CA2920944 AA	20160817	CA20162920944	20160217
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US2016235122 AA	20160818	US20160045410	20160217
US2016235123 AA	20160818	US20160045442	20160217
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US2016235124 AA	20160818	US20160045478	20160217
US9826780 BB	20171128	US20160045478	20160217
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US2019328042 AA	20191031	US20190410858	20190513

Priority:

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Probable Assignee: KRIETZMAN MARK

Assignee(s): (std): KRIETZMAN MARK ; KRIETZMAN MARK H

Inventor(s): (std): KRIETZMAN MARK ; KRIETZMAN MARK H

Agent(s): STIKEMAN ELLIOTT SENCRL SRL LLP

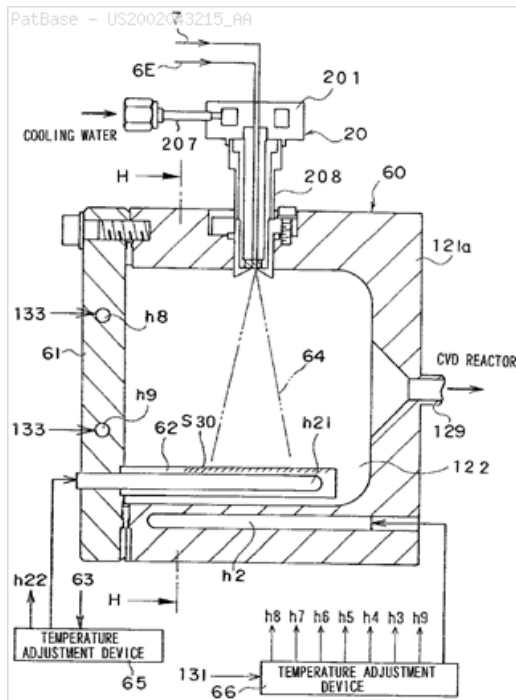
6) Family number: 22458160 (US2002043215 AA) © PatBase

Title: LIQUID SUBSTANCE SUPPLY DEVICE FOR VAPORIZING SYSTEM, VAPORIZER, AND VAPORIZATION PERFORMANCE APPRAISAL METHOD

Abstract: In a liquid substance supply device, a three port two valve directional control valve is provided in a transfer line, and a substance container and the transfer line are connected together by a four port three valve directional control valve in such a way that the four port three valve directional control valve and the substance container can be removed from the transfer line as a unit. Furthermore, in a vaporizer, an orifice member is provided to surround the end portion of an internal conduit in which flows a mixture substance consisting of a gas and a liquid substance mixed therewith, and gas for atomization is spouted into a vaporization chamber through a gap defined between the internal conduit and the orifice member. Yet further, the temperature of a vaporization surface in the vaporization chamber can be controlled independently in correspondence with the nature of the liquid substance.

Classifications:

International (IPC 8-9): B01D1/00 B01F3/04 B01J19/08 B01J4/00 B05C11/10 C23C16/448 F04B43/00 F04B43/08 F04B43/10 F04B9/00 F04B9/123 F16K11/10 F16K11/20 F16K31/122 F16K7/12 F16K7/17 H01L21/02 H01L21/205 H01L21/31 **International (IPC 1-7):** B01J19/08 B01J4/00 C23C16/00 C23C16/448 F04B43/08 F04B43/10 F04B9/123 F16K7/17 H01L21/205 H01L21/31 **CPC:** B01D1/0082 C23C16/448 C23C16/4486 F16K11/207 F16K31/1221 Y10S261/65 **US:** 118/706 118/715 118/719 118/726 261/130 261/142 261/35 261/43 261/46 261/47 261/48 261/49 261/52 261/58 261/67 261/72.1 261/78.2 261/DIG.065 261/DIG.65



Family:

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JP3507425 B2	20040315	JP20000292759	20000926
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KR100756773 B1	20070907	KR20070046454	20070514
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US7637482 BB	20091229	US20080219584	20080724

Priority:

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US20080219583 20080724	US20080219584 20080724	

Probable Assignee: ULVAC INC

Assignee(s): (std): KAWAMOTO TATSUSHI ; KAWAO MITSUSHI ; MATSUNO SHIGERU ; MITSUBISHI ELECTRIC CORP ; MIYASHITA SHOJI ; SHIMADZU CORP ; UCHIKAWA FUSAOKI ; YAMADA AKIRA ; YOSHIOKA NAOKI

Assignee(s): MITSUBISHI DENKI KABUSHIKI KAIHSA ; MITSUBISHI DENKI KABUSHIKI KAISHA ; MITSUBISHI DENKI KK ; ULVAC INC

Inventor(s): (std): KAWAMOTO TATSUJI ; KAWAMOTO TATSUSHI ; KAWAO MITSUSHI ; MATSUNO SHIGERU ; MIYASHITA SHOJI ; UCHIKAWA FUSAOKI ; UCHIKAWA HIDEFUSA ; YAMADA AKIRA ; YOSHIOKA NAOKI ; YOSHIOKA NAOMI

Inventor(s): AKIRA YAMADA ; FUSAOKI UCHIKAWA ; MITSUSHI KAWAO ; NAOKI YOSHIOKA ; SHIGERU MATSUNO ; SHOJI MIYASHITA ; TATSUSHI KAWAMOTO

Agent(s): KIM HO SEOG ; KIM MYUNG SHIN ; WESTERMAN HATTORI DANIELS AND ADRIAN LLP