

Search history

Search 1: CPC=(F16L19/02 or F16L19/00 or A62B07/00 or A62B9/04) (Results 1965)
Search 2: SFT=(nypple or coupling) (Results 1000000)
Search 3: 1 and 2 (Results 651)
Search 4: SFT=(flow 1w meter) (Results 83779)
Search 5: 3 and 4 (Results 4)
Search 6: SFT=(thread) (Results 1000000)
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Search 8: oxygen and 7 (Results 12)
Search 9: 1 and 4 (Results 6)
Search 10: 8 (Results 12)

Title: **COUPLINGS**

Abstract: (Claim 1) 1. A **coupling** including first and second members interconnecting fluid communication means, said first member comprising first tubular means having one end thereof closed, said closed end having a hole therethrough, second flexible tubular means fixedly mounted within said first tubular means adjacent said hole and having a bore equal in diameter and in axial registry with said hole, and third slidable tubular means mounted within said first tubular means and urged toward said second tubular means, said third tubular means having a first probe mounted at its forward end for tight insertion in said bore and said hole, said second member comprising means for displacing said probe from said hole and said bore with engagement of said members, said displacing means including a second probe corresponding to said first probe but hollow and having at least one hole therethrough, and valve means operatively communicating with said second probe for controlling the flow of fluid therethrough.

Classifications:

International (IPC 8-9): A62B9/04 F16L29/00

F16L29/04 (Advanced/Invention);

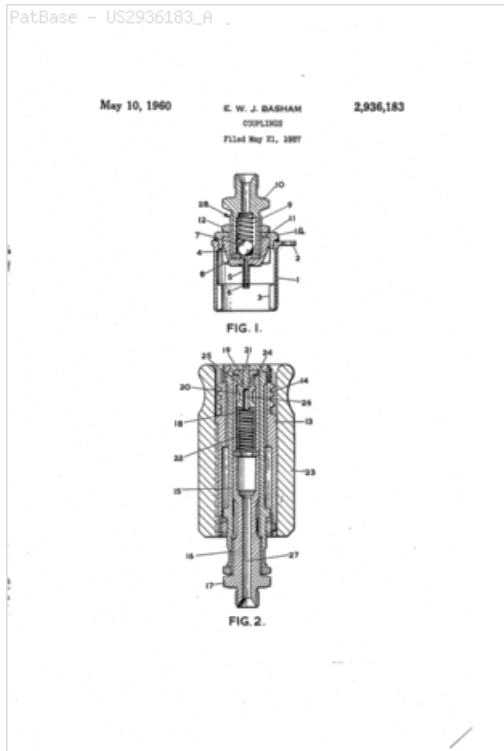
A62B9/00 F16L29/00 (Core/Invention)

International (IPC 1-7): F16L29/00

CPC: F16L29/04 A62B9/04 F16L29/00 Y10T137/87965

European: A62B9/04 F16L29/00 F16L29/04

US: 137/614.05 251/149.4

**Family:**

Publication number	Publication date	Application number	Application date
US2936183 A	19600510	US19570660673	19570521

Priority:

19560526 19560526 US19570660673 19570521

Probable Assignee:

NORMALAIR LTD

Assignee(s): (std):

NORMALAIR LTD

Assignee(s):

NORMALAIR LIMITED

Inventor(s): (std):

JAMES BASHAM EDGAR WILLIAM

Inventor(s):

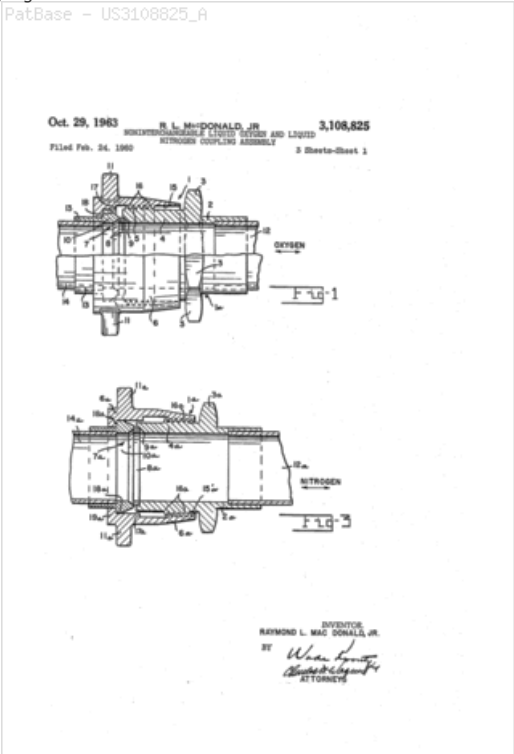
BASHAM EDGAR WILLIAM JAMES

Title: NONINTERCHANGEABLE LIQUID **OXYGEN** AND LIQUID NITROGEN **COUPLING** ASSEMBLY

Abstract: 1. A pair of noninterchangeable **threaded** swivelly rotatable, substantially identical internal diameter **coupling** members for simultaneously transferring two different fluids between a transport equipment therefor and a storage facility therefor comprising; first male and female relatively rotatable complementary **threaded coupling** parts for conveying a - first one of said fluids, and second male and female relatively rotatable complementary **threaded coupling** parts for conveying the other fluid, said first female **coupling** part having a complementary inner **threaded** portion spaced inwardly from the outer end thereof a distance at least equal to the axial length of the **threaded** portion hereof, and formed with an enlarged bore extending inwardly from said outer end to said **threaded** portion having 21 diameter exceeding the maximum diameter of said **threaded** portion, said first male **coupling** part having a similar complementary threaded portion extending inwardly from its outer end, terminating in an adjacent unthreaded portion not less in axial length than the axial length of the **threaded** portion thereof, having a diameter less than the inner diameter of the **threaded** portion of said first female **coupling** part, said female **coupling** part of said second **coupling** member being **threaded** internally from its outer end, terminating in an adjacent unthreaded inner portion not less in length than the axial length of the **threaded** portion of said male **coupling** part of said second male and female **coupling** members, said last unthreaded inner portion having a diameter exceeding the maximum diameter of the **threaded** portion of the male **coupling** part of the second **coupling** member, said male **coupling** part of said second **coupling** member having an outer unthreaded portion extending inwardly from its outer end for a distance at least equal to the axial length of the **threaded** portion of the female **coupling** part of the second male and female **coupling** members, said last unthreaded portion having a diameter less than the inner diameter of the **threaded** portion of said female **coupling** part of said second male and female **coupling** members, terminating in an adjacent **threaded** portion complementary to the **threaded** portion of the female **coupling** part of the second **coupling** member having an axial length not exceeding the length of the unthreaded portion thereof, whereby when the male and female **coupling** parts of said first and second **coupling** members are interchanged, the **threaded** portions of each can not be engaged to draw the **coupling** parts into fluid conveying relation.

Classifications:

International (IPC 8-9): F16L19/00 F16L19/03 (Advanced/Invention);
F16L19/00 F16L19/02 (Core/Invention)
International (IPC 1-7): F16L19/02
CPC: Y10S285/914 F16L19/00
European: F16L19/00
US: 285/148.19 285/18 285/354 285/914



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US19600010814 19600224

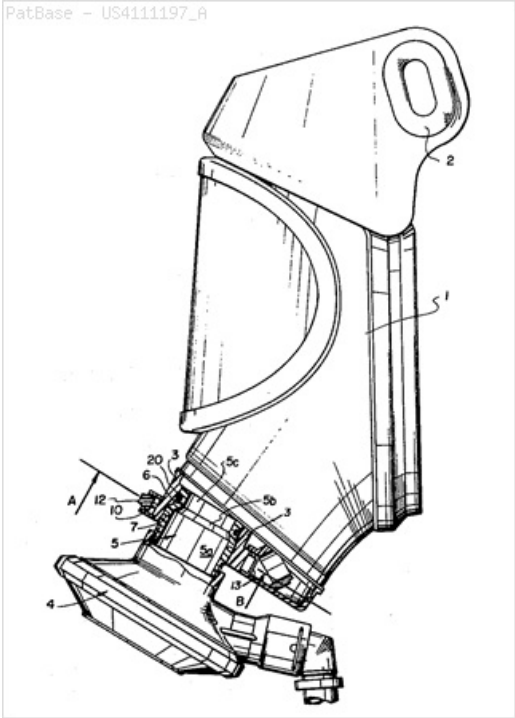
Probable Assignee: MACDONALD JR RAYMOND L
Assignee(s): (std): MACDONALD JR RAYMOND L
Inventor(s): (std): MACDONALD JR RAYMOND L
Inventor(s): JR RAYMOND L MACDONALD

Title: RESPIRATORY DEVICE **COUPLING** CONSTRUCTION

Abstract: A respiratory device **coupling** construction comprises a device which is used for respiration and which contains a cylindrical receiving recess for a connection such as a breathing gas connection. The connection or **coupling** includes a connector for a conduit of the gas which has a tubular portion which is insertable into the receiving recess. A tubular cover member overlies the cylindrical receiving portion and has a slot therethrough. A U-shaped locking spring has a web portion with an actuating part which is displaceably positionable in the slot so as to project from the cover member for engagement by a person's hand. The U-shaped locking spring includes two leg portions which straddle the tubular portion. Respective legs engage in respective slots on diametrically opposite sides of the tubular portion of the connecting device and the ends of these legs engage against a camming surface defined at the edge of the slot on the tubular portion. When the actuating part is depressed by a person's hand, the cam springs the leg portions outwardly to release the tubular portion for disconnection. When the actuating part is released, the leg portions spring into the slots and hold the tubular portion in the cylindrical receiving recess.

Classifications:

International (IPC 8-9): A62B9/04 F16L21/08 F16L37/088
F16L37/14 (Advanced/Invention);
A62B9/00 F16L21/08 F16L37/00 (Core/Invention)
International (IPC 1-7): A62B18/08 A62B7/00 A62B9/04 F16L21/08
F16L37/12 F16L37/14
CPC: A62B9/04 F16L37/088
European: A62B9/04 F16L37/088
US: 128/142.4 128/202.27 128/204.26



Family:

Publication number	Publication date	Application number	Application date
CH617592 A	19800613	CH19770002498	19770228
DE2609034 A1	19770908	DE19762609034	19760305
DE2609034 B2	19810430	DE19762609034	19760305
FR2342747 A1	19770930	FR19770007233	19770304
FR2342747 B1	19820827	FR19770007233	19770304
GB1558207 A	19791219	GB19770009584	19770307
JP1211630 C3	19840612	JP19770020769	19770225
JP52126092 A2	19771022	JP19770020769	19770225
JP58047184 B4	19831020	JP19770020769	19770225
NL7614587 A	19770907	NL19760014587	19761230
SE7702384 A	19770906	SE19770002384D	19770303
US4111197 A	19780905	US19770770371	19770222

Priority:

DE19762609034 19760305

Probable Assignee: DRAEGERWERK AG

Assignee(s): (std): DRAEGERWERK AG

Assignee(s): DRAEGERWERK AG 2400 LUEBECK DE ; DRAEGERWERK AKTIENGESELLSCHAFT TE LUEBECK
BONDSREPUBLIEK DUITSLAND ; DRAGERWERK AG ; DRAGERWERK AKTIENGESELLSCHAFT ;
DREGERWERK AG

Inventor(s): (std): ERUNSUTO BUARUNKE ; GDULLA M ; GDULLA MANFRED ; GDULLA MANFRED ING GRAD ;
MANFURETSUTO GUDOURA ; WARNCKE E ; WARNCKE ERNST ; WARNICKE ERNST

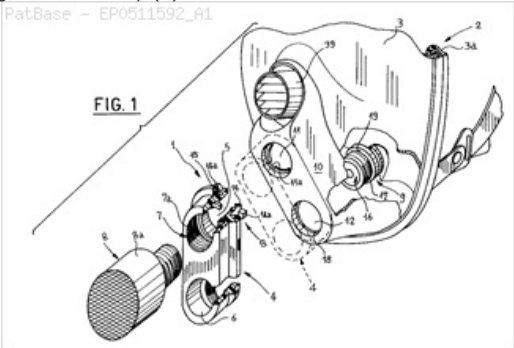
Inventor(s): MANFURETSUTO GUDORA ; ERUNSUTO UARUNKE ; M GDULLA ; MANFRED GDULLA ; GDULLA MANFRED
ING ; GDULLA ING GRAD MANFRED 2400 LUEBECK DE ; E WARNCKE ; ERNST WARNCKE

Title: INTERCHANGEABLE CONNECTING SLEEVE FOR PROTECTION MASKS USED FOR OPERATING INTERVENTIONS IN POLLUTED ENVIRONMENTS.

Abstract: The present invention relates to a connecting sleeve (1) of the type to be associated with protection masks (2) and comprising a main body (4) provided with an inspiration opening (5) and an expiration opening (6) disposed in mutual side by side relation. Formed on the inspiration opening (5) designed to engage either a filtering element (8a) or an air supply duct (8b, 8c) is a bayonet **coupling** (13) arranged to enable the removable engagement of the main body (4) at one hole (11) formed in an anchoring portion (10) intended to be integral with the mask (2). A **threaded** fastening bush (17) optionally incorporating a single-acting valve (20) is engaged in the expiration opening (6) from the inside of the mask (2) through a second hole (12) of the anchoring portion (10), for fastening the main body (4) thereto.

Classifications:

International (IPC 8-9): A62B9/04 (Advanced/Invention);
A62B9/00 (Core/Invention);
A62B F16L (Subclass/Invention)
International (IPC 1-7): A62B A62B9/04 F16L
CPC: A62B9/04
European: A62B9/04



Family:

Publication number	Publication date	Application number	Application date
EP0511592 A1	19921104	EP19920106983	19920423
IT1248374 B	19950111	IT1991MI01172	19910430
ITMI911172 A0	19910430	IT1991MI01172	19910430
ITMI911172 A1	19921101	IT1991MI01172	19910430

Priority:

IT1991MI01172 19910430

Probable Assignee: SEKUR SPA
Assignee(s): (std): SEKUR SPA
Assignee(s): SEKUR S P A
Inventor(s): (std): CRISTIANI ANDREA ; GENOVA BALDASSARE
Designated states: DE FR GB

Title: MASK ASSEMBLY

Abstract: A respiratory mask assembly for use in the delivery of non-invasive positive airway pressure to a user. The assembly includes a rigid shell having a channel portion defined by an inner wall, an outer wall and a channel floor, a face-contacting cushion acting to space the shell away from the user's face and a sealing tab extending from the cushion to engage a portion of the shell to provide a continuous airtight seal between the cushion and the shell. A retaining ring within the mask assembly is configured to secure the cushion to the shell. The retaining ring has a first portion including at least one clip configured to pass through at least one slot portion such that an underside surface of the at least one clip engages a section of the shell when the retaining ring is positioned within the channel.

Classifications:

International (pc-8-9): A44B11/00 A44B11/26 A44B99/00
A61B18/08 A61F5/56 A61M11/00 A61M16/00 A61M16/06 A61M16/08
A61M16/16 A61M39/10 A62B18/00 A62B18/02 A62B18/08 A62B9/00
A62B9/04 H03K5/05 H03K5/151 H03K7/04 (Advanced/Invention);
A44B11/00 A44B11/25 A61M16/06 A61M16/08
A62B18/00 (Core/Invention)

International (IPC 1-7): A44B11/00 A61M16/06 A61M16/08
A62B18/02 A62B18/08 A62B18/10 A62B9/00

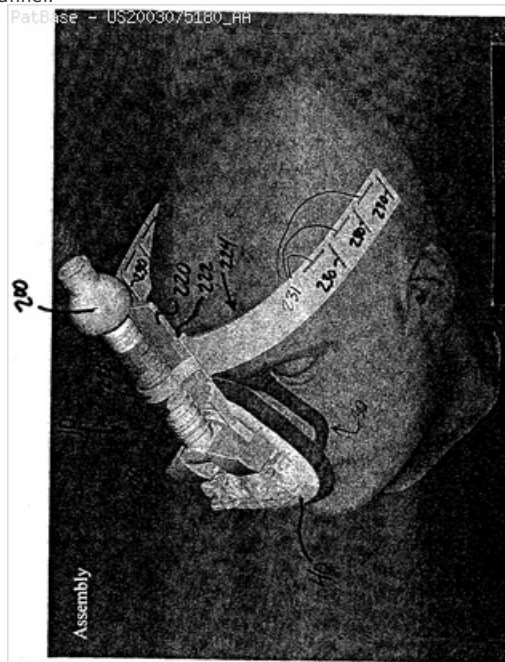
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A61M16/085 A61M16/0858 A61M16/06 A61M16/0616 A61M16/08
A61M16/065 A61M16/0655 A61M16/0611 A61M16/0622
A61M16/0633 A61M16/0638 A61M16/0683 A61M16/0825
A61M2206/14 A62B9/04 Y10T29/4987

European: A44B11/26C A61M16/06 A61M16/06S A61M16/08
A61M16/08D A62B9/04 H03K5/05 H03K5/151 H03K7/04 K61M16/06
K61M16/06A2 K61M16/06A4 K61M16/06A4C K61M16/06A7
K61M16/06A7B K61M16/06S K61M16/08 K61M16/08D2 K61M206/14

US: 1/1 128/200.24 128/201.24 128/202.27 128/202.270P
128/204.18 128/205.25 128/206.21 128/206.210P 128/206.210S
128/206.24 128/206.240P 128/206.240S 128/206.26 128/206.260S
128/206.27 128/206.270S 128/206.28 128/207.11 128/207.110P
128/207.110S 128/207.12 128/207.120S 128/207.13 128/207.130P
128/207.130S 128/207.17 128/207.17 128/208.44 24/3.11 24/3.110S
264/259.264/299.29/450 366/139P 366/139S 366/13P

JP F-Term: 4C103 2E185 2E185/AA07 2E185/AA08 2E185/BA08
2E185/CA03 2E185/CC25 2E185/CC36 3B011

JP F-Index: A61M16/06/A A41D13/11 A62B18/02/Z A62B18/08/Z
A61M16/08/330



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: RESMED LTD

Assignee(s): (std):	AMARASINGHE AMAL ; AMARASINGHE AMAL S ; AMARASINGHE AMAL SHIRLEY ; ASTON GRAHAME B ; ASTON GRAHAME BRUCE ; BECHTEL MARTIN ; BIENER ACHIM ; FU TIMOTHY TSUN FAI ; DAVIDSON AARON SAMUEL ; DREW JOANNE ELIZABETH ; GUNARATNAM MICHAEL KASSIPILLAI ; FRATER ROBERT HENRY ; DARKIN DONALD ; GING ANTHONY MICHAEL ; DREW JOANNE E ; GING ANTHONY M ; DREW JOANNE ; FRATER ROBERT H ; GUNARATNAM MICHAEL K ; GUNNEY MEMDUH ; RESMED LTD ; LITHGOW PERRY DAVID ; ROBINSON GARY CHRISTOPHER ; RAJE MILIND CHANDRAKANT ; LANG BERND CHRISTOPH ; KWOK PHILIP RODNEY ; LJUBOJEVIC BORIVOJE ; MAP MEDIZIN TECHNOLOGIE GMBH ; LITHGOW PERRY D ; RAJE MILIND ; SOLARI CLIVE
Assignee(s):	RESMED R AND D LTD ; RESMED R AND D GERMANY GMBH ; RESMED LTD BELLA VISTA ; RESMED BELLA VISTA LTD ; RESMED (R AND D) LTD ; SILICON VALLEY BANK ; SOTEIRA INC ; RESMED LIMITED ; D3 DESIGN PTY LTD
Inventor(s): (std):	ACHIM BIENER ; AMARASINGHE AMAL ; AMARASINGHE AMAL S ; AMARASINGHE AMAL SHIRLEY ; ASHTON GRAHAME BRUCE ; ASTON GRAHAME B ; ASTON GRAHAME BRUCE ; BECHTEL MARTIN ; BIENER ACHIM ; BORIVOJE LJUBOJEVIC ; BRUCE ASTON GRAHAME ; CHANDRAKANT RAJE MILIND ; CHRISTOPH LANG BERND ; DARKIN DONALD ; DAVID LITHGOW PERRY ; DAVIDSON AARON SAMUEL ; DONALD DARKIN ; DREW JOANNE ; DREW JOANNE E ; DREW JOANNE ELIZABETH ; FRATER ROBERT H ; FRATER ROBERT HENRY ; ELIZABETH DREW JOANNE ; FU TIMOTHY TSUN FAI ; GING ANTHONY M ; GING ANTHONY MICHAEL ; GUNARATNAM MICHAEL K ; GUNARATNAM MICHAEL KASSIPILLAI ; GUNNEY MEMDUH ; HENRY FRATER ROBERT ; JOANNE ELIZABETH DREW ; KWOK PHILIP RODNEY ; LITHGOW PERRY D ; LITHGOW PERRY DAVID ; LANG BERND CHRISTOPH ; LJUBOJEVIC BORIVOJE ; MARTIN BECHTEL ; MEMDUH GUNNEY ; MICHAEL GING ANTHONY ; PERRY DAVID LITHGOW ; PHILIP RODNEY KWOK ; RAJE MILIND ; RAJE MILIND CHANDRAKANT ; RODNEY KWOK PHILIP ; SAMUEL DAVIDSON AARON ; SHIRLEY AMARASINGHE AMAL ; SOLARI CLIVE ; TIMOTHY TSUN FAI FU ; TSUN FAI FU TIMOTHY ; RAJE MILIND C ; ROBERT HENRY FRATER ; ROBINSON GARY C ; ROBINSON GARY CHRISTOPHER ; LITHGOW DAVID PERRY ; LANG CHRISTOPH BERND ; LANG BERND C ; KASSIPILLAI GUNARATNAM MICHAEL ; JUNEIN MEIMUDUCH ; DREW JOANNA ELIZABETH ; DREW ELIZABETH JOANNE ; DAVIDSON AARON S ; BINET ACHIM ; FU TIMOTHY T ; FU TIMOTHY TSUN FAI ; BECHTEL MERTIN ; FU TIMOTHY TSUB FAU
Inventor(s):	AMAL SHIRLEY AMARASINGHE ; AARON SAMUEL DAVIDSON ; FRATER ROBERT HENRY BELLA VISTA ; BERND CHRISTOPH LANG ; GARY CHRISTOPHER ROBINSON ; FU TIMOTHY TSUN FAI BELLA VISTA ; KWOK PHILIP RODNEY BELLA VISTA ; ROBINSON GARY CHRISTOPHER EAST KILLARA ; MILIND

CHANDRAKANT RAJE ; MICHAEL KASSIPILLAI GUNARATNAM ; LITHGOW PERRY DAVID BEXLEY NORTH ; RAJE MILIND CHANDRAKANT BELLA VISTA ; RAJE MILIND CHANDRAKANT WENTWORTHVILLE ; ROBERT H FRATER ; MILIND RAJE ; LJUBOJEVIC BORIVOJE RYDE ; LITHGOW PERRY ; LITHGOW PERRY DAVID BELLA VISTA ; LITHGOW PERRY DAVID GLENWOOD ; KWOK PHILIP RODNEY NORTH RYDE ; LANG BERND ; JOANNE DREW ; GUNEY MEMDUH BELLA VISTA ; GUNEY MEMDUH KILLARA ; GUNARATNAM MICHAEL KASSIPILLAI BELLA VISTA ; GUNARATNAM MICHAEL KASSIPILLAI MARSFIELD ; GING ANTHONY MICHAEL SUMMER HILL ; GRAHAME BRUCE ASTON ; GUNARATNAM MICHAEL ; FU TIMOTHY TSUN FAI CARLINGFORD ; GING ANTHONY ; FRATER ROBERT ; FRATER ROBERT HENRY LINDFIELD ; FU TIMOTHY TSUN FAI BELLA VISTA ; FU TIMOTHY ; DREW JOANNE ELIZABETH BALGOWLAH HEIGHTS ; DREW JOANNA ELIZABETH BELLA VISTA ; DAVIDSON AARON SAMUEL BELLA VISTA ; DAVIDSON AARON SAMUEL NEWPORT ; DAVIDSON AARON ; DARKIN DONALD DURAL ; CLIVE SOLARI ; ASTON GRAHAME BRUCE YAGOONA ; ASTON GRAHAME ; AMARASINGHE AMAL SHIRLEY BEECROFT ; ANTHONY MICHAEL GING

Agent(s):

HALFORDS IP; VOSSIUS AND PARTNER PATENTANWAELTE RECHTSANWAELTE MBB; MILANOV NINA VENDELA MARIA ET AL; VOSSIUS AND PARTNER; VOSSIUS AND PARTNER PATENTANWAELTE RECHTSANWAELTE MBB; DE ELZABURU ALBERTO; NIXON AND VANDERHYE PC

Designated states:

AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: RACCORD A VIS POUR TUBES OU TUYAUX.

Abstract: The connector has a sleeve (1) with an external **threading**, and a connection part (2) fitted tightly in the part (1). The part (2) has a **coupling** nut (5) rotating with respect to the part (2) for removable connection of the sleeve. The sleeve has a notch (6), extending radially, in a zone of its end rotated towards the part (2), and a recess (7) extending from the notch until an end of the **threading** rotated opposite to the part (2).

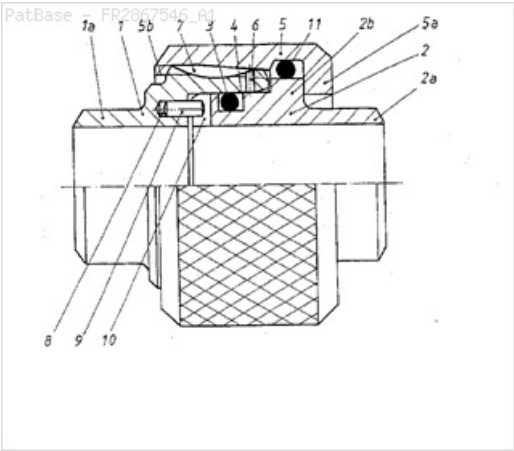
Classifications:

International (ipc 8-9): F16L19/00 F16L19/02 F16L21/08 F16L35/00 F16L55/07 (Advanced/Invention);
F16L19/00 F16L19/02 F16L21/08 F16L35/00
F16L55/07 (Core/Invention)

International (ipc 1-7): F16L21/08 F16L35/00 F16L55/07

CPC: F16L19/005 F16L19/02 F16L2101/20 F16L2201/20

European: F16L19/00B F16L19/02 R16L101/20 R16L201/20



Family:

Publication number	Publication date	Application number	Application date
FR2867546 A1	20050916	FR20040002606	20040312
FR2867546 B1	20080808	FR20040002606	20040312

Priority:

FR20040002606 20040312

Probable Assignee:

WEINHOLD KARL

Assignee(s): (std):

WEINHOLD KARL

Inventor(s): (std):

WEINHOLD KARL

Title: RESPIRATORY PROTECTION DEVICE THAT HAS RAPID **THREADED** CLEAN AIR SOURCE ATTACHMENT

Abstract: A personal respiratory protection device 10 that comprises a mask body 12 that has a structure 35 located on it for receiving a clean air supply source such as a filter cartridge 14. The clean air receiving structure 35 has a first **threaded** portion 34. The clean air supply source has a second **threaded** portion 58 that has a **thread** 60 that mates with a **thread** 36 of the first **threaded** portion 34. The first and second **threaded** portions 34 and 58 engage each other at a high **thread** pitch and include an integral detente. A stop prevents over-rotation of the clean air supply source 14 relative to the mask body 12 during the securement operation. The inventive device allows the clean air supply source 14 to be attached to the mask body 12 with minimal rotation and is sufficiently intuitive that users may only need one hand to attach and replace the clean air source component 14 without having to remove the respirator 10 from their face.

Classifications:

International (IPC 8-9): A62B18/08 A62B23/02 A62B9/04

B01D46/00 (Advanced/Invention);

A62B23/02 A62B9/04 (Advanced/Non-invention);

A62B18/00 A62B23/00 A62B9/00 B01D46/00 (Core/Invention)

International (IPC 1-7): A62B9/04

CPC: Y10S55/33 Y10S55/35 A62B23/02 A62B9/04

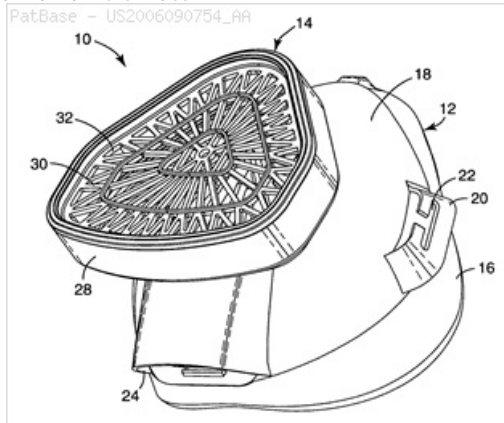
European: A62B23/02 A62B9/04

US: 128/201.17 128/202.27 128/206.17 55/502 55/505 55/DIG.33

55/DIG.35

JP F-Term: 2E185 2E185/AA07 2E185/BA08 2E185/CA03 3B011

JP F-Index: A41D13/11/A A41D13/11/Z A62B18/08/Z A62B23/02



Family:

Publication number	Publication date	Application number	Application date
AU2005301273 AA	20060511	AU20050301273	20050914
AU2005301273 BB	20110908	AU20050301273	20050914
BRPI0517361 A	20081007	BR2005PI17361	20050914
BRPI0517361 B1	20160322	BR2005PI17361	20050914
CN101052441 A	20071010	CN200580037601	20050914
CN101052441 B	20110105	CN200580037601	20050914
EP1804924 A1	20070711	EP20050797552	20050914
IN01787CN2007 A	20070831	IN2007CN01787	20070430
IN259117 B	20140228	IN2007CN01787	20070430
JP2008517710 T2	20080529	JP20070538913T	20050914
KR101340226 B1	20131210	KR20077009581	20050914
KR20070070194 A	20070703	KR20077009581	20050914
RU2349357 C1	20090320	RU20070120569	20050914
US2006090754 AA	20060504	US20040977076	20041029
US7320722 BB	20080122	US20040977076	20041029
WO06049708 A1	20060511	WO2005US33060	20050914

Priority:

US20040977076 20041029 WO2005US33060 20050914

Probable Assignee: 3M CO

Assignee(s): (std): 3M CO ; 3M INNOVATIVE PROPERTIES CO ; ZM INNOVEJTIV PROPERTIZ KOMPAN

Assignee(s): ZM INNOVEJTIV PROPERTIZ KOMPANI ; 3M INNOVATIVE PROPERTIES COMPANY

Inventor(s): (std): MITTELSTADT WILLIAM A ; MITTELSTADT WILLIAM A PILGRIM ; PILGRIM JOHN M ; PILGRIM DZHON M ; MITTEL SHTADT VIL JAM A

Inventor(s): WILLIAM A MITTELSTADT ; JOHN M PILGRIM ; MITTEL'SHTADT VIL'JAM A. ; MITTELSTADT WILLIAM ; PILGRIM JOHN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; 3M INNOVATIVE PROPERTIES COMPANY; 3M INNOVATIVE PROPERTIES CO; WETZELS ANNA A; ANNA A

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

Title: METHOD AND APPARATUS FOR VENTILATION ASSISTANCE

Abstract: A mask interface device is provided for a protective mask of the type having a mask filter and a mask expiratory port, the mask expiratory port having an expiratory port valve of the type that is normally closed and openable upon expiration, the mask filter having an inspiratory air inlet, the mask interface device comprising: a mask interface assembly mountable to the mask and having a mounting interface for mounting an air pressure generator in fluid communication with the inspiratory inlet of the mask filter; and an expiratory port interface assembly mountable to the mask expiratory port and comprising at least one opening for venting expired gas to atmosphere and a one-way valve that is positioned to control the flow of expired gas out through the at least one opening, and wherein the one-way valve is set to an opening pressure that provides positive end expiratory pressure or PEEP. Optionally, this opening pressure is between 2.5 and 20 cm H₂O. Optionally, the mask interface device interface directly with the mask filter. In one embodiment of the invention, this interface does not require the filter to have a mating connection and is therefore is universal for a broad class of filters, for example cylindrical filters that project from the mask.

Classifications:

International (IPC 8-9): A61M16/00 A61M16/06 A62B18/02

A62B18/08 A62B18/10 A62B7/10 A62B9/02

A62B9/04 (Advanced/Invention);

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A62B9/00 (Core/Invention)

International (IPC 1-7): G08G1/14

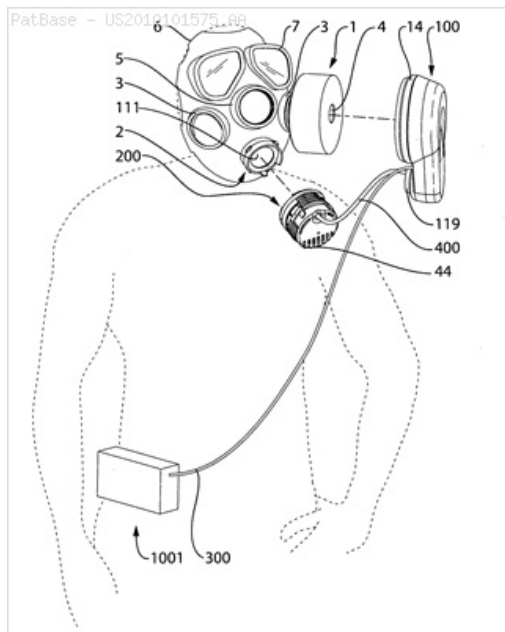
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US: 128/204.21 128/204.210P 128/205.24 128/205.240S 128/205.25

JP F-Term: 4C103

JP F-Index: A61M16/00/332/A A61M16/06/A



Family:

Publication number	Publication date	Application number	Application date
EP2094360 A1	20090902	EP20070855530	20071213
EP2094360 A4	20130612	EP20070855530	20071213
IN04147DN2009 A	20100101	IN2009DN04147	20090623
JP2010512198 T2	20100422	JP20090540564T	20071213
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WO08070989 A1	20080619	WO2007CA02248	20071213

Priority:

US20060869726P 20061213

US20070519221 20071213

WO2007CA02248 20071213

Probable Assignee: MASIONIS EDWARD ; FEDORKO LUDWIK

Assignee(s): (std): FEDORKO LUDWIK ; MASIONIS EDWARD

Assignee(s): MASIONIS EDWARD ; FEDORKO LUDWIK

Inventor(s): (std): FEDORKO LUDWIK ; MASIONIS EDWARD

Agent(s): SCHROEER GERNOT H; HERMAN AND MILLMAN

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE 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 IS IT JP KE KG KM KN KP KR 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: **COUPLING** DEVICE FOR TUBULAR MEMBERS AND INSTALLATION TOOL

Abstract: A **coupling** device includes a **coupling** body and a collar adapted to engage a tubular member in a permanent swaged connection. The **coupling** device includes axially spaced front and back ferrules which engage during swaging to provide a plurality of seals intermediate the ferrules and the tubular member as well as the **coupling** body. The back ferrule includes a central region having a generally cylindrical wall that is elastically/plastically deformed to a corrugated tube-like shape during swaging to enhance the maintenance of the seals. A portable installation tool for swaging the **coupling** body and collar to the tubular member is hydraulically actuated.

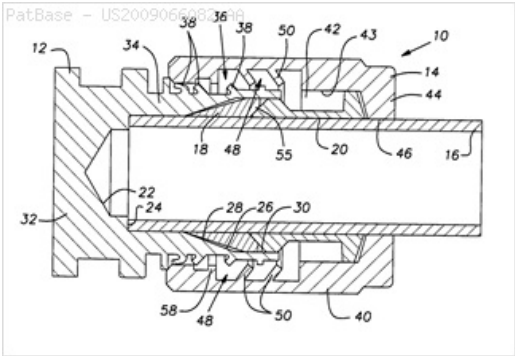
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International (IPC 8-9): B23P19/04 F16L13/14 F16L19/00 F16L19/02 F16L19/04 F16L19/08 F16L25/04 (Advanced/Invention); B23P19/04 F16L13/14 F16L19/00 F16L19/02 F16L25/00 (Core/Invention)

CPC: F16L13/146 F16L19/00 F16L19/065 B21D39/046 B25B27/10 Y10T29/53987

European: F16L19/00 F16L19/065

US: 285/333 285/333P 285/343 285/348 285/382 285/382.7 285/382P 285/382S 285/389 285/389S 29/282 29/282S



Family:

Publication number	Publication date	Application number	Application date
US2009066082 AA	20090312	US20070850797	20070906
US2010171309 AA	20100708	US20100722660	20100312
US7900976 BB	20110308	US20070850797	20070906
US8608210 BB	20131217	US20100722660	20100312
WO09033008 A1	20090312	WO2008US75379	20080905

Priority:

US20070850797 20070906 US20100722660 20100312

Probable Assignee: TYLOK INT INC

Assignee(s): (std): INSIGHT ENGINEERING SERVICES I ; INSIGHT ENGINEERING SERVICES INC ; KAINEC KEITH D

Assignee(s): KAINEC KEITH MR ; TYLOK INT INC

Inventor(s): (std): KAINEC KEITH D

Agent(s): PEARNE AND GORDON LLP; DEIOMA DAVID B ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE 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 IS IT JP KE KG KM KN KP KR 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: MULTIPLE SECURED **COUPLING** DEVICE FOR **OXYGEN** LANCES

Abstract: A multiple secured **coupling** device for **oxygen** lances 1 is achieved in that both the male connector 8 of the safety pipe 3, the connection part 18 of the lance holder 2 and also the cap nut 9 have an extending safety piece 10, 11. In this way, the male connector 8 can be inserted very far into the female part 19 or the connection part 18 and then located in position using the cap nut 9. A total of five sealing zones are created that in particular effectively prevent the escape of highly flammable gases, in particular **oxygen**.

Classifications:

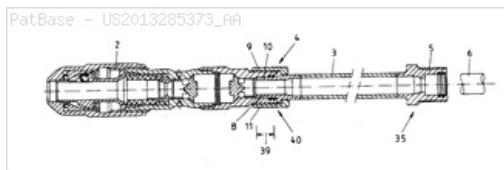
International (IPC 8-9): C21C5/46 F16B7/18 F16L17/00 F16L19/00 F16L19/02 F16L19/03 G01N1/10 (Advanced/Invention)

CPC: F16L19/02 C21C5/462 F16L19/025

US: 285/386

JP F-Term: 3H014 3H014/BA01 3J039 3J039/AA03 3J039/BB01 3J039/GA01 3J039/GA03 4K070 4K070/CF10

JP F-Index: C21C5/46/102/Z F16B7/18/A F16L19/00 F16L19/03



Family:

Publication number	Publication date	Application number	Application date
CN103429763 A	20131204	CN201180063516	20111215
CN103429763 B	20160203	CN201180063516	20111215
DE102011014323 A1	20120628	DE201110014323	20110318
DE502011013838 D1	20180329	DE201150013838T	20111215
EP2659009 A2	20131106	EP20110817466	20111215
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ES2663599 T3	20180416	ES20110817466T	20111215
IN01728KN2013 A	20140328	IN2013KN01728	20130531
JP2014509371 T2	20140417	JP20130546587T	20111215
JP6084166 B2	20170222	JP20130546587T	20111215
KR101805963 B1	20171206	KR20137016392	20111215
KR20130135874 A	20131211	KR20137016392	20111215
PT2659009 T	20180403	PT20110817466T	20111215
TR201806980 T4	20180621	TR20180006980T	20111215
TW201226574 A	20120701	TW20110138193	20111021
TWI575073 B	20170321	TW20110138193	20111021
US2013285373 AA	20131031	US20110977085	20111215
US9500306 BB	20161122	US20110977085	20111215
WO12089188 A2	20120705	WO2011DE002127	20111215
WO12089188 A3	20121101	WO2011DE002127	20111215

Priority:

DE201010056153 20101228 DE201110014323 20110318 WO2011DE002127 20111215
WO2011DE02127 20111215 EP20110817466 20111215

Probable Assignee: BEDA OXYGENTECHNIK ARMATUREN GMBH

Assignee(s): (std): BAYER REINHARDT ; BEDA OXYGENTECH ARMATUR ; BEDA OXYGENTECHNIK ARMATUREN GMBH

Inventor(s): (std): BAYER REINHARDT ; REINHARDT BAYER

Agent(s): PATENTANWAELTE SCHULTE AND SCHULTE; SCHULTE JOERG; ISERN JORGE; TUGBA GUENDEMIR; JAMES CREIGHTON; MEERA P; SCHULTE AND SCHULTE

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE 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 IS IT JP KE KG KM KN KP KR 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 PE PG PH PL PT QA RO RS RU RW 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

Title: RESPIRATORY ASSEMBLY INCLUDING LATCHING MECHANISM

Abstract: Respiratory assemblies are disclosed that include first and second respiratory components and a latching mechanism. The latching mechanism is capable of engaging at least one retaining feature of a respiratory component, thereby impeding disengagement of the first respiratory component from the second respiratory component. Upon application of force to the actuator, the at least one latch is capable of disengaging from the retaining feature, thereby allowing disengagement of the first respiratory component from the second respiratory component. Respiratory components including or adapted to work with such latching mechanisms are also disclosed.

Classifications:

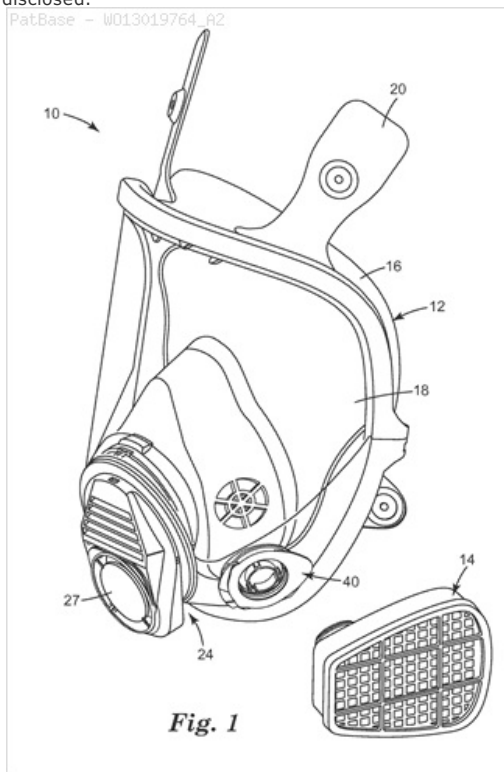
International (IPC 8-9): A61M A62B18/08 A62B23/02 A62B9/04 F16L37/086 (Advanced/Invention);

A61M (Subclass/Invention)

CPC: A62B19/00 A62B9/04

JP F-Term: 2E185 2E185/AA06 2E185/BA12 2E185/CC13 3B011

JP F-Index: A41D13/11 A62B18/08/Z



Family:

Publication number	Publication date	Application number	Application date
AU2012290229 AA	20130207	AU20120290229	20120731
AU2012290229 BB	20151112	AU20120290229	20120731
BR112014002143 A2	20170221	BR20141102143	20120731
CN103813833 A	20140521	CN201280036550	20120731
CN103813833 B	20170714	CN201280036550	20120731
EP2739362 A2	20140611	EP20120746210	20120731
IN00654CN2014 A	20150403	IN2014CN00654	20140127
JP2014524280 T2	20140922	JP20140524019T	20120731
KR20140068041 A	20140605	KR20147005121	20120731
RU2014103317 A	20150910	RU20140103317	20120731
RU2572172 C2	20151227	RU20140103317	20120731
WO13019764 A2	20130207	WO2012US48919	20120731
WO13019764 A3	20131219	WO2012US48919	20120731

Priority:

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Probable Assignee: 3M CO

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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 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 IS IT JP KE KG KM KN KP KR 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 PE PG PH PL PT QA RO RS RU RW 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

Title: RESPIRATORY ASSEMBLY INCLUDING LATCHING MECHANISM

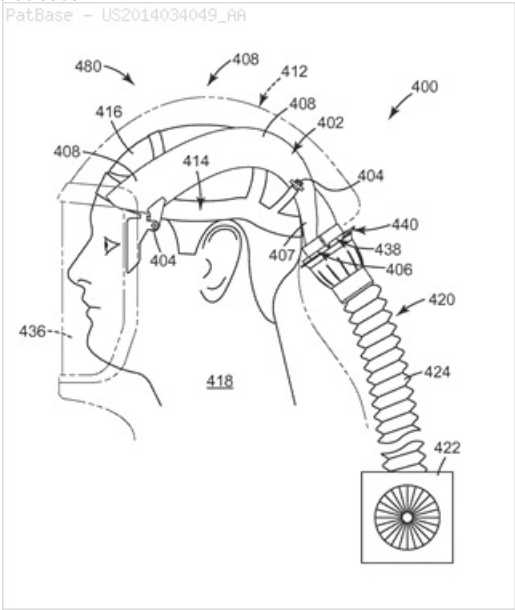
Abstract: Respiratory assemblies are disclosed that include first and second respiratory components and a latching mechanism. The latching mechanism is capable of engaging at least one retaining feature of a respiratory component, thereby impeding disengagement of the first respiratory component from the second respiratory component. Upon application of force to the actuator, the at least one latch is capable of disengaging from the retaining feature, thereby allowing disengagement of the first respiratory component from the second respiratory component. Respiratory components including or adapted to work with such latching mechanisms are also disclosed.

Classifications:

International (IPC 8-9): A62B19/00 A62B7/00 A62B7/10 A62B9/04 B63C9/08 (Advanced/Invention)

CPC: A62B9/04 A62B7/10 A62B19/00

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Family:

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US2014034049 AA	20140206	US20120562460	20120731
US2017266472 AA	20170921	US20170610811	20170601
US9700743 BB	20170711	US20120562460	20120731

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