

Diego Gonzalez

1) Family number: 58284506 (US2015013684A)

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Title: SPEAKING VALVE SYSTEM WITH CUFF DEFLATION

Abstract: A tracheal tube system includes a tracheal tube assembly having a cannula configured to be positioned in a patient airway, and a connector coupled to the proximal end of the cannula. The tracheal tube assembly further includes a cuff disposed about the cannula. The tracheal tube system additionally includes a speaking valve comprising means for deflating the cuff, wherein the speaking valve, the connector, and the cannula form a contiguous passageway for delivering air one-way into the patient airway when the speaking valve is disposed onto the end connector.

Classifications:

International (IPC 8-9): A61M16/00 A61M16/04

A61M16/20 (Advanced/Invention)

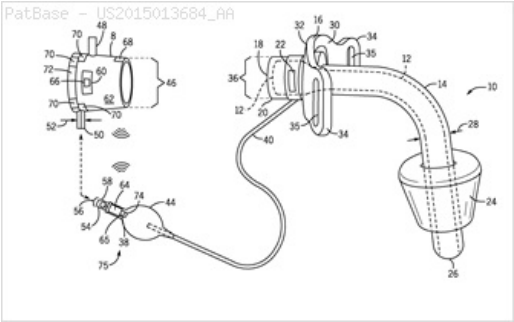
CPC: A61M16/044 A61M16/202 A61M16/208 A61M2016/0027

A61M16/0051 A61M16/0497 A61M2205/14 A61M2205/3306

A61M2205/3317 A61M2205/3375 A61M2205/3569 A61M2205/3592

A61M2205/584 A61M16/0468 A61M16/021

US: 128/207.15



Family:

Publication number	Publication date	Application number	Application date
US2015013684 AA	20150115	US20130939750	20130711

Priority:

US20130939750 20130711

Probable Assignee: COVIDIEN LP

Assignee(s): (std): COVIDIEN LP

Inventor(s): (std): BOLGER EMMET GERARD ; SETHIYA KAMLESH SUBHASH ; ROSEKRANS BRIAN ; BURNS JOHN P ; STEPHENS SEAN M

2) Family number: 12999719 (GB2313317A)

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Title: SPEAKING VALVE ASSEMBLY AND CAP THEREFOR

Abstract: A speaking valve for a tracheostomy tube has a valve unit 21 containing a flexible diaphragm one-way valve 34 hinged onto a housing 1. A cap 2 with a domed roof 40 and four catches 45 to 48 is clipped onto the valve unit 21, the roof being spaced away from the end of the valve unit so that inhaled air is drawn in on all sides radially, rather than axially.

Classifications:

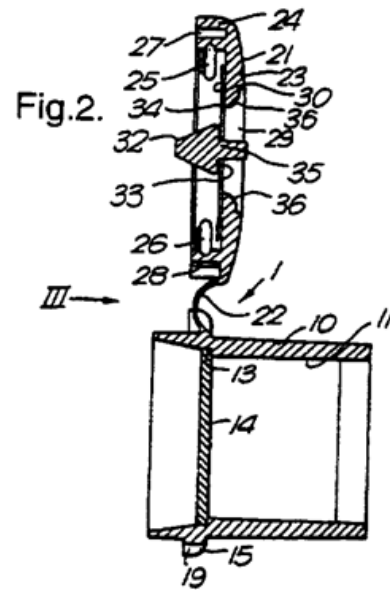
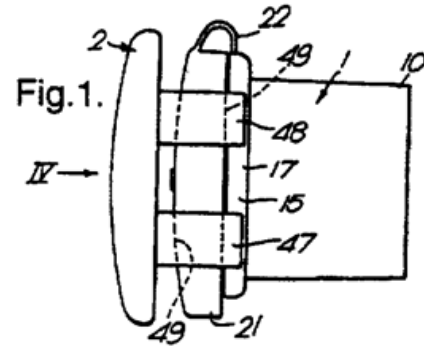
International (IPC 8-9): A61M16/04 (Advanced/Invention);

A61M16/04 (Core/Invention)

International (IPC 1-7): A61M16/04 A61M16/20

CPC: A61M16/0468

European: A61M16/04E4

**Family:**

Publication number	Publication date	Application number	Application date
FR2748939 A1	19971128	FR19970006414	19970520
GB2313317 A1	19971126	GB19970009872	19970515
GB2313317 B2	20000119	GB19970009872	19970515
GB9610729 A0	19960731	GB19960010729	19960522
GB9709872 A0	19970709	GB19970009872	19970515

Priority:

GB19960010729 19960522

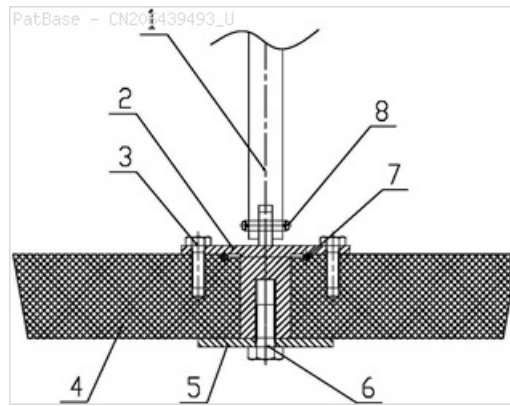
Probable Assignee: SMITHS INDUSTRIES PLC**Assignee(s):** (std): SMITHS IND PLC ; SMITHS INDUSTRIES PLC**Assignee(s):** SMITHS INDUSTRIES PUBLIC LIMITED COMPANY**Inventor(s):** (std): TURNER MARK WILLIAM**Inventor(s):** MARK WILLIAM TURNER**3) Family number: 65646411 (CN206439493U)**

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Title: PUSH ROD AND VALVE PLATE HINGE STRUCTURE OF ELECTRIC PUTTER VALVE

Abstract: The utility model relates to a cleaning equipment, specifically speaking are push rod and valve plate hinge structure of electric putter valve. According to the utility model provides a technical scheme: push rod and valve plate hinge structure of electric putter valve, its characterized in that: including electric putter, the fixed cover of T type, fixed cover bolt and pin, the top of the fixed cover of T type is equipped with the otic placode, the electric putter lower extreme passes through pin and otic placode hinge, the valve plate center is equipped with the centre bore, fixed the overlapping of T type wears to adorn downwards in the centre bore of valve plate, and the flange of the fixed cover of T type overlaps bolt fixed connection on the valve plate upper surface with fixing. The utility model discloses compact structure, reasonable in design is applied to the washing liquid or rinsing liquid circulation supply system of automatic gate cleaning machine, and sealing performance is good, can make a large amount of washing liquids or rinsing liquid flow past rapidly, makes things convenient for the cleaning machine to realize large - traffic closed washing, improves the cleanliness after the part rinses.

Classifications:**International (IPC 8-9):** F16K51/00 (Advanced/Invention)**CPC:** F16K51/00



Family:

Publication number	Publication date	Application number	Application date
CN106641436 A	20170510	CN201611128113	20161209
CN206439493 U	20170825	CN201621354393U	20161209

Priority:

CN201611128113 20161209 CN201621354393U 20161209

Probable Assignee: WUXI YINLIAN GEAR MACHINERY CO LTD

Assignee(s): (std): WUXI YINLIAN GEAR MACHINERY CO LTD

Assignee(s): WUXI CHINA UNIONPAY GEAR MACHINERY ; WUXI YINLIAN GEAR MACHINERY CO

Inventor(s): (std): DING JUAN ; LI HONGMEI ; LIU HONGXIAN ; WU SHUANGSHENG ; ZHANG HUI ; ZHAO PENG ; ZHOU ZHIYAN

4) Family number: 64863976 (CN205938062U)

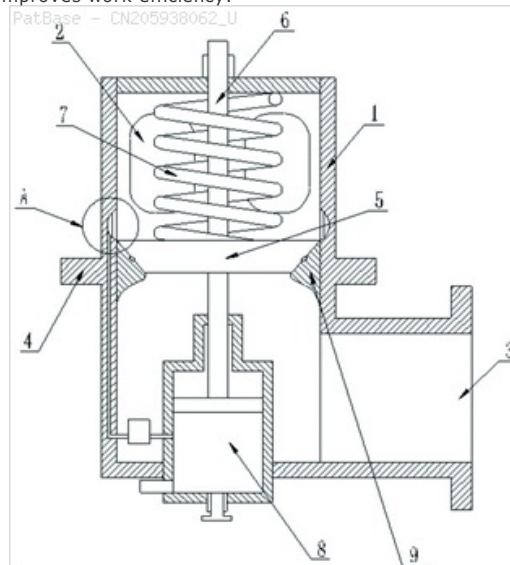
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Title: SEA VALVE

Abstract: The utility model discloses a stone oil valve, specifically speaking are sea valve, including the valve casing with install the case in the valve casing, oil -out and oil inlet have on the valve casing, mounting flange on the outer wall of valve casing, the case include the piston, with hinge joint's ejector pin and the reset spring of suit in the ejector pin outside, still set up cylinder drive arrangement in the inner chamber of valve casing, cylinder drive arrangement's output shaft is at the lower extreme of piston, owing to adopted above -mentioned technical scheme, a sea valve can make inseparable the sealing on the disk seat of piston through setting up closing device, avoid not hard up, use a period after, can not cause the case oil leak because of energy consumption yet, improve the life -span of using, the extension live time improves work efficiency.

Classifications:

International (IPC 8-9): F16K1/00 F16K1/32
F16K27/02 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN205938062 U	20170208	CN201620744764U	20160715

Priority:

CN201620744764U 20160715

Probable Assignee: YC PETROLCHEMICAL MACHINERY CO LTD

Assignee(s): (std): YC PETROLCHEMICAL MACHINERY CO LTD

Assignee(s): YONGJIA 10 PERCENT PETROCHEMICAL MACHINERY LTD ; YONGJIA PETROCHEMICAL MACHINERY CORP ; YC PETROLCHEMICAL MACHINERY CO

Inventor(s): (std): SUN YIMENG ; LYU YICHENG

5) Family number: 60054885 (WO15117282A1)

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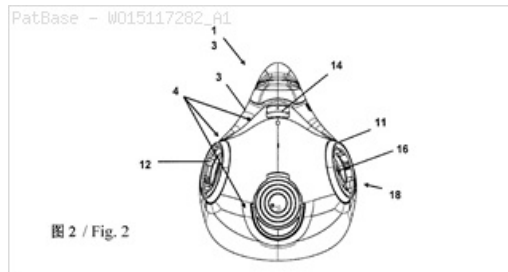
Title: RESPIRATORY PROTECTION HALF-MASK

Abstract: A respiratory protection half-mask (1) provided with a mask body (2). The mask body (2) is provided with a soft and elastic substrate (3) and a bearing piece (4) part of which is arranged in the substrate (3), and the bearing piece (4) is provided with a front element (6) and side elements (5a, 5b) arranged on two sides of the bearing piece (4). Each of the front element (6) and the side element (5a, 5b) is provided with a connection structure (11, 512). A respiratory protection assembly, especially, an expiratory valve, a filtering element, a conversation film and/or an external air supply apparatus, can be fixed on each of the connection structures (11, 512). The side elements (5a, 5b) are separately connected, by means of a hinge (7), to the front element (6) in a hinged manner.

Classifications:

International (IPC 8-9): A62B18/02 (Advanced/Invention)

CPC: A62B18/025



Family:

Publication number	Publication date	Application number	Application date
CN105992615 A	20161005	CN201480075064	20140210
CN105992615 B	20190405	CN201480075064	20140210
DE112014006348 T5	20161020	DE201411006348T	20140210
WO15117282 A1	20150813	WO2014CN071935	20140210

Priority:

WO2014CN071935 20140210

Probable Assignee: DRAEGERWERK AG

Assignee(s): (std): DRAEGER SAFETY AND CO KGAA AG ; DRAEGERWERK AG ; HERRMANN JOHANNES ; WANG XIANG ; WIRRIES LISA ; NESCH VOLKER

Assignee(s): DRAGER SAFETY AND CO KGAA AG ; DRAEGER SAFETY KGAA

Inventor(s): (std): HERRMANN JOHANNES ; WIRRIES LISA ; NESCH VOLKER ; WANG XIANG ; WIRRIES SICKMANN LISA

Agent(s): KANGXIN PARTNERS PC

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 IR 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 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

6) Family number: 64807662 (CN205918908U)

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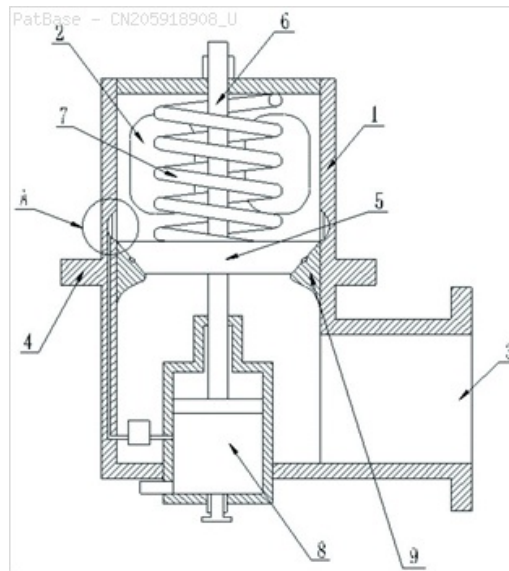
Title: PNEUMATIC SUB -SEA VALVE WITH FASTENER

Abstract: The utility model discloses a pneumatic valve, specifically speaking is a pneumatic sub -sea valve with fastener, including the valve casing with install the case in the valve casing, oil -out and oil inlet have on the valve casing, mounting flange on the outer wall of valve casing, the case include the piston, with hinge joint's ejector pin and the reset spring of suit in the ejector pin outside, still set up cylinder drive arrangement in the inner chamber of valve casing, owing to adopted above - mentioned technical scheme, a pneumatic sub -sea valve with fastener can make inseparable the sealing on the disk seat of piston through setting up closing device, life -span of improve using, the extension live time simultaneously, sets up air intake control device, can close the air intake valve after the gasbag is full of, avoids gasbag 11 to fill and explodes, plays air bag's effect, realizes that the gassing is filled in the automation of gasbag, improves work efficiency.

Classifications:

International (IPC 8-9): F16K1/00 F16K27/02

F16K31/122 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN205918908 U	20170201	CN201620744765U	20160715

Priority:

CN201620744765U 20160715

Probable Assignee: YONGJIA YICHENG PETROCHEMICAL MACHINERY CO LTD

Assignee(s): (std): YONGJIA YICHENG PETROCHEMICAL MACHINERY CO LTD

Assignee(s): YONGJIA 10 PERCENT PETROCHEMICAL MACHINERY LTD ; YONGJIA PETROCHEMICAL MACHINERY CORP ; YONGJIA YICHENG PETROCHEMICAL MACHINERY CO

Inventor(s): (std): LYU YICHENG ; SUN LIMENG

7) Family number: 20154762 (GB737786A)

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Title: Improvements in or relating to machines for shaping shoe uppers

Abstract: 737,786. Moulding heel portions of veldt-schoen uppers. BRITISH UNITED SHOE MACHINERY CO., Ltd. (United Shoe Machinery Corporation). Aug. 6, 1953 [Aug. 7, 1952], No. 19876/52. Class 17 (1). A machine for moulding and outflanging seat portions of veldtschoen uppers has an inner seat mould 24 co-operating with a pair of outer seat moulds 26, a pair of flange forming members 28 co-operating with the outer moulds to outflange a seat end marginal portion of the upper, hydraulic means responsive to relatively light forces applied to the workpiece by the outer moulds to cause these moulds to press more heavily against the workpiece, and hydraulic means responsive to this heavier pressure to actuate the flange forming members. The different actions of the outer moulds and flange formers are brought about by the automatic and sequential opening of different valves. In a two-station machine the hydraulic means are controlled automatically so that operative movements of the outer moulds and flange formers at one station involve return movements to inoperative position of the corresponding parts at the other station. The machine illustrated is similar to that described in Specification 567,681. Each station includes a cylinder 58 with a hollow piston 44 which is operated by fluid through 274,306 to move the outer moulds into engagement with the upper, then through 292,296 to press the moulds against the upper, and through 294,298 to retract the moulds, a cylinder 80 with a piston 76, 78 which is operated by fluid through 286,288 to move the flange formers outwardly and rearwardly to perform the out-wiping action, and through 300,302 for closing, i.e. retracting, the flange formers, a cylinder 102 with a piston rod 100 and piston 106 which is operated by fluid through 288,286 to move the flange formers to press the flange, i.e. perpendicularly to the plane of wiping, and by springs 114 to retract the formers, and five sequence valves 250, 266, 268, 270, 272. Each sequence valve comprises upper and lower chambers 252, 254 connected by a vertical passage which is opened or closed by a spool 256 slidable therein, a smaller opening 258 normally closed by a spring-pressed valve 260, and a duct 261 connecting chamber 254 with the bottom of the passage. A spring 262, adjustable by a screw 264, normally holds the spool to close the passage. Thus fluid entering chamber 252 can pass to chamber 254, through 258, but reverse flow is prevented until the pressure of the fluid is sufficient to overcome the spring. The valves are set to operate individually at different predetermined pressures to operate the outer moulds and flange formers at the desired pressures and in desired sequence, this sequence of operations being fully described. The machine also includes a pressure fluid pump 144 driven by a motor 142, a sump 150, supply pipe 152, a safety valve 154 controlled by hand wheel 156, filter 160, a quick release valve 280 with a fluid operated spool 284, and a main control valve 162. The latter contains a spool 166 which is reciprocated to operate the left station and make the right station inoperative, or vice versa, through 208 or 209, 186, 190, 196 by energization of solenoid 206 or 204. To accomplish this the operator depresses the button 224 of the common switch box 218 with one hand, and with the other hand operates the plate 226 of switch box 222 or 220 located at the front of the left- and right-hand stations respectively to thus energize relay coil 234 or 240 so that solenoid 206 or 204 is energized through contact 236 or 242. To prevent damage to the upper by the flange formers when the upper is thicker than normal the piston 106 is constructed to then yield automatically, permitting the formers to yield away from the outer mould. For this purpose, and to position the piston initially in a predetermined position heightwise of the cylinder, a positioning member 116 is mounted in cylinder 102 and adjusted longitudinally thereof by means of a threaded portion of rod 132 and locking nuts 140, 136. An inverted spring retaining cup 124 is mounted in a groove 122 surrounding a central projection 120 on member 116 and retained by pins 126 in the latter extending into slots in the lower end of the cup. In the normal position, as at the right-hand station in Fig. 5, spring 128, between the projection 120 and the cup, forces the cup to its highest position, determined by pins 126, piston rod 100 is supported by cup 124, and springs 114 hold piston 106 and rod 100 in their lower position. Piston 106, with the flange formers, can yield, when required, through the compression of spring 128. Flange 130 on cup 124 moves between 104 and 106 and prevents excessive upward movement of the piston and flange formers if no work is in the machine. When piston 44 moves downwardly in cylinder 58 fluid is sucked from an auxiliary sump 180 in valve 162 through pipe 182 and check valve 291 to fill the space above the upper end 62 of the piston. Buffer grooves formed in the periphery of portion 62 slow the movement of the piston near the opposite ends of its stroke. Fluid leaking from cylinders 102 passes via lips 308 and pipes 310 to a pan 312 and hence via petcock 314 to the sump 150. Air or excess fluid is expelled from cylinders 58 through

bleeder valves.

Classifications:

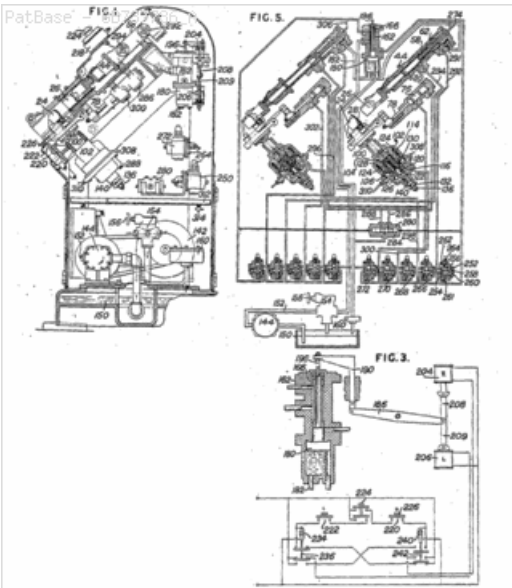
International (IPC 8-9): A43D113/00 (Advanced/Invention);

A43D113/00 (Core/Invention)

International (IPC 1-7): A43D113/00

CPC: A43D113/00

European: A43D113/00



Family:

Publication number	Publication date	Application number	Application date
GB737786 A	19551005	GB19520019876	19520807

Priority:

GB19520019876 19520807

Probable Assignee: BRITISH UNITED SHOE MACHINERY

Assignee(s): (std): BRITISH UNITED SHOE MACHINERY

Assignee(s): THE BRITISH UNITED SHOE MACHINERY COMPANY LIMITED

8) Family number: 20433890 (GB813996A)

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Title: Throat unit for the flues of open fires

Abstract: 813,996. Throat restrictors. UWINS, C. C. G. Dec. 3, 1956 [Dec. 3, 1955], No. 34675/55. Class 126 A throat restrictor for an open fireplace comprises a front member 102, Fig. 4, bolted to side members 100, 101, and a valve composed of plates 9, 10, Fig. 1, adjustably bolted together and pivotally supported in the side members by trunnions formed at the ends of the thickened lower edge of the plate 9. The position of the valve may be adjusted by a counterweighted lever or handle 15 secured to a bracket 108 integral with the plate 9 and having a pawl 13 engageable with a rack 11 pivotally supported in the side members 100, 101, and the lower end of which rests against the fireback. The front edge of the valve plate 10 moves away from the arcuate part 17 of the front member 102 as the valve opens.

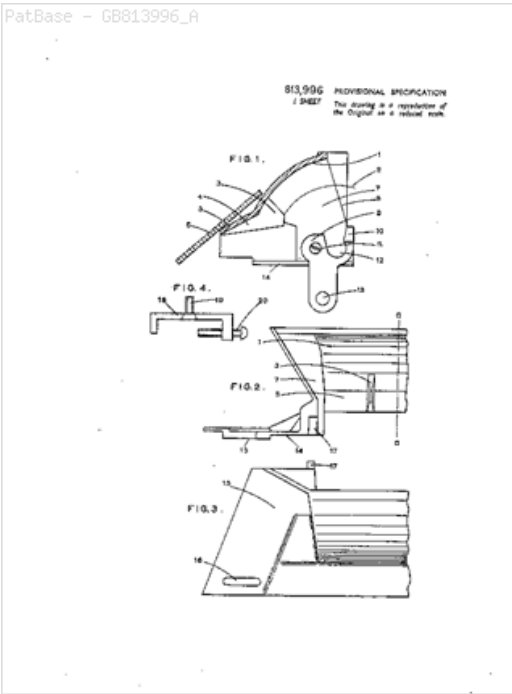
Classifications:

International (IPC 8-9): F24B1/189 (Advanced/Invention);

F24B1/00 (Core/Invention)

CPC: F24B1/1895

European: F24B1/189B



Family:

Publication number	Publication date	Application number	Application date
GB813996 A	19590527	GB19550034675	19551203

Probable Assignee: CECIL CHARLES GEORGE UWINS
Assignee(s): (std): CECIL CHARLES GEORGE UWINS

9) Family number: 47005694 (US2012090621A)

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Title: TRACHEOSTOMA VALVE

Abstract: A tracheostoma valve (1) comprises a main air passage structure provided with a main valve arrangement. The tracheostoma valve is switchable in response to a spurt of inhalation air from a breathing condition into a speaking condition, while the tracheostoma valve is switchable in response to a spurt of exhalation air from said speaking condition into said breathing condition. The main valve arrangement comprises an at least partly flexible bistable wall portion which has a circumferential bordering edge. At least part of the bordering edge forms a hinging means around which the bistable wall portion is hingeable between a first stable position in which an orifice of the main air passage structure is being blocked, and a second stable position in which said orifice is released.

Classifications:
International (IPC 8-9): A61M16/00 A61M16/04 (Advanced/Invention)
CPC: A61M16/0468 A61M16/1045
European: A61M16/04E4
US: 128/207.16 128/207.160P

