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(54) Title of the invention : AUTOMATED SUBGLOTTIC ASPIRATION DEVICE

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(57) Abstract :

An automated subglottic aspiration device comprising a stepper motor (9) adapted to drive a piston of a syringe (10) to create a suction for aspiration of subglottic secretions, by rotating an armature shaft by the stepper motor (9), to create a suction, according to pre-stored values in a memory the device or values given by a user via a keypad (2), a trap container (22) coupled to the syringe, to store the subglottic secretions; and a display unit (1) to display messages, wherein the stepper motor (9) is coupled to a plunger holder (7) and controls the drive of the piston of the syringe. The first one-way valve (18) is opened to facilitate storing of subglottic secretion into the trap container (22) during suction and remains closed during releasing air out of the syringe (10) to prevent the air or secretion from moving back into the respiratory tract.



No. of Pages : 19 No. of Claims : 6


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क्रम सं/SL No :011193619



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(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 501011
आवेदन सं. / Application No. : 201811016906
फाइल करने की तारीख / Date of Filing : 04/05/2018
पेटेंटी / Patentee : 1.INDIAN INSTITUTE OF TECHNOLOGY KANPUR 2.SANJAY GANDHI POSTGRADUATE INSTITUTE OF MEDICAL SCIENCES
आविष्कारकों का नाम /Name of Inventor(s) : 1.KUMAR, Amal, Sudheendran 2.GURJAR, Mohan 3.JANAKARAJAN, Ramkumar

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित AUTOMATED SUBGLOTTIC ASPIRATION DEVICE नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख मई 2018 के चौथे दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled AUTOMATED SUBGLOTTIC ASPIRATION DEVICE as disclosed in the above mentioned application for the term of 20 years from the 4th day of May 2018 in accordance with the provisions of the Patents Act,1970.



Signature of Controller of Patents

अनुदान की तारीख : 19/01/2024
Date of Grant :

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, मई 2020 के चौथे दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।
Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 4th day of May 2020 and on the same day in every year thereafter.

Signature of Lt Col Varun Bajpai VSM
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(12) PATENT APPLICATION PUBLICATION

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(54) Title of the invention : A WIRELESS PRESSURE SENSOR NODE FOR AN INFLATABLE STRUCTURE

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4)Devendra Gupta

(57) Abstract :

A wireless pressure sensor node for inflatable structures is disclosed. The sensor node includes a first side, wherein the first side includes a pressure sensor configured to measure pressure of the inflatable structure. The first side also includes a port, wherein a first end of the port is coupled to the pressure sensor using a substrate and a second end of the port is configured to be coupled with the inflatable structure. The sensor node further includes a second side, wherein the second side includes a wireless transceiver chip configured to communicate measured pressure to a gateway device on a predefined frequency range by creating a meshing network.
 FIG. 1

No. of Pages : 18 No. of Claims : 9

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पेटेंट प्रमाण पत्र | Patent Certificate

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. : 481050
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पेटेंटी / Patentee : Indian Institute of Technology Kanpur
आविष्कारकों का नाम / Name of Inventor(s) : 1.Aman Garg 2.Chinthulal V.S 3.Bishakh Bhattacharya
4.Devendra Gupta

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *A WIRELESS PRESSURE SENSOR NODE FOR AN INFLATABLE STRUCTURE* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख नवम्बर 2018 के आठवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *A WIRELESS PRESSURE SENSOR NODE FOR AN INFLATABLE STRUCTURE* as disclosed in the above mentioned application for the term of 20 years from the 8th day of November 2018 in accordance with the provisions of the Patents Act,1970.



अनुदान की तारीख : 12/12/2023
Date of Grant :

पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, नवम्बर 2020 के आठवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 8th day of November 2020 and on the same day in every year thereafter.

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