

Title (en)

METHOD FOR ADJUSTING A FILL LEVEL OF A LIQUID BALLOON OF A MEDICAL DEVICE, AND MEDICAL DEVICE COMPRISING A LIQUID BALLOON FOR FORMING ARTIFICIAL SPHINCTERS

Title (de)

VERFAHREN ZUM EINSTELLEN EINES BEFÜLLUNGSZUSTANDES EINES FLÜSSIGKEITSBALLONS EINER MEDIZINISCHEN EINRICHTUNG UND MEDIZINISCHE EINRICHTUNG UMFASSEND EINEN FLÜSSIGKEITSBALLONS ZUR AUSBILDUNG VON KÜNSTLICHEN SCHLIESSMUSKELN

Title (fr)

PROCÉDÉ DE RÉGLAGE D'UN NIVEAU DE REMPLISSAGE D'UN BALLONNET DE LIQUIDE D'UN DISPOSITIF MÉDICAL, ET DISPOSITIF MÉDICAL COMPRENANT UN BALLONNET DE LIQUIDE POUR FORMER DES SPHINCTERS ARTIFICIELS

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Application

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Abstract (en)

[origin: WO2021213834A1] The invention relates to a device comprising: a liquid balloon (1); a pump unit (5) connected to the liquid balloon (1) via a hose (3) to pump liquid into the liquid balloon (1) and to pump liquid out of the liquid balloon (1), which pump unit has a receiving chamber (10) that can be filled with liquid, the volume of which chamber can be changed by moving an adjustment part (11) of the pump unit (5) by means of an electric motor (6) fed by a battery (7); an electronic control unit (8) for controlling the electric motor (6); and at least one pressure sensor (20) for detecting the pressure of the liquid in the receiving chamber (10), characterised in that the device also has a position sensor for detecting the position of the adjustment part (11). In a method for adjusting the fill level of the liquid balloon (1), the volume of a receiving chamber (10) of the pump unit (5) filled with liquid is changed by moving an adjustment part (11) of the pump unit (5) by means of an electric motor (6) fed by a battery (7), wherein an adjustment process of the adjustment part (11) is performed by a control unit (8) controlling the electric motor (6). The adjustment process comprises controlling the path of the adjustment part (11) to approach a target position of the adjustment part (11) and, after this path control, checking whether the pressure of the liquid in the receiving chamber (10) lies within an admissible filling pressure range around the second filling pressure. If necessary, the position of the adjustment part (11) is adjusted once more.

IPC 8 full level

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CPC (source: AT EP US)

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Citation (search report)

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