

Title (en)

WIRELESS CAPSULE ROBOT AND SYSTEM FOR OPERATING A WIRELESS CAPSULE ROBOT

Title (de)

DRAHTLOSER KAPSELROBOTER UND SYSTEM ZUM BETRIEB EINES DRAHTLOSEN KAPSELROBOTERS

Title (fr)

ROBOT À CAPSULE SANS FIL ET SYSTÈME POUR FAIRE FONCTIONNER UN ROBOT À CAPSULE SANS FIL

Publication

EP 4326137 A1 20240228 (EN)

Application

EP 22791180 A 20220420

Priority

- FI 20215467 A 20210421
- FI 2022050255 W 20220420

Abstract (en)

[origin: WO202223878A1] A wireless capsule robot (10) for traversing through a gastrointestinal tract (92) of a patient (90) is disclosed. The wireless capsule robot (10) comprises an outer layer (11), a controller (15) inside the outer layer (11), and one or more biopsy devices (30) functionally connected to the controller (15). The controller (15) is arranged to operate the biopsy device (30). The one or more biopsy devices (30) also comprise a biopsy needle (35), the biopsy needle (35) comprising a tip portion (36) at the distal end of the biopsy needle (35). The outer layer (11) of the wireless capsule robot (10) also comprises a membrane area (111), the controller (15) being arranged to cause outward movement (40) of the biopsy needle (35) relative to the wireless capsule robot (10) such that the tip portion (36) of the biopsy needle (35) is arranged to pierce through the membrane area (111) and arranged to provide a perforation (11 h) into the membrane area (111), the tip portion (36) of the biopsy needle (35) being arranged to move outside the outer layer (11) of the wireless capsule robot (10) through the perforation (11 h).

IPC 8 full level

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Designated extension state (EPC)

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