

Title (en)

SYSTEM AND METHODS WITH USER INTERFACES FOR MONITORING PHYSICAL THERAPY AND REHABILITATION

Title (de)

SYSTEM UND VERFAHREN MIT BENUTZERSCHNITTSTELLEN ZUR ÜBERWACHUNG VON PHYSIOTHERAPIE UND REHABILITATION

Title (fr)

SYSTÈME ET PROCÉDÉS IMPLIQUANT DES INTERFACES UTILISATEUR POUR LE SUIVI D'UNE PHYSIOTHÉRAPIE ET D'UNE RÉÉDUCATION

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2018144716A1] A system for monitoring a joint of a patient includes multiple sensors to be disposed near a joint and to measure or observe actions or physical quantities associated with the joint; and at least one communications module coupled to the sensors to receive data from the sensors and to transmit sensor information to an, external device. The system also includes a patient device and clinician device which can be used to, for example, monitor and display information obtained from the sensors, determine range of motion measurements from the sensor data, show progress in physical therapy, take a photograph or video of the site on the patient, obtain a pain score, and include friends for providing encouragement during physical therapy.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] US 2015302162 A1 20151022 - HUGHES REXFORD IRVING [US], et al
- [A] US 2016302721 A1 20161020 - WIEDENHOEFER CURT [US], et al
- [A] WO 2013072234 A1 20130523 - TELEFONICA SA [ES]
- [A] NEJATI HOSSEIN ET AL: "Smartphone and Mobile Image Processing for Assisted Living: Health-monitoring apps powered by advanced mobile imaging algorithms", IEEE SIGNAL PROCESSING MAGAZINE, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 33, no. 4, 1 July 2016 (2016-07-01), pages 30 - 48, XP011615788, ISSN: 1053-5888, [retrieved on 20160701], DOI: 10.1109/MSP.2016.2549996
- [A] REHAMM ABD ELRAHIM ET AL: "Inter-rater and intra-rater reliability of Kinovea software for measurement of shoulder range of motion", BULLETIN OF FACULTY OF PHYSICAL THERAPY, vol. 21, no. 2, 1 January 2016 (2016-01-01), pages 80, XP055708971, ISSN: 1110-6611, DOI: 10.4103/1110-6611.196778
- [A] GIORGIO FERRIERO ET AL: "Reliability of a smartphone-based goniometer for knee joint goniometry .", INTERNATIONAL JOURNAL OF REHABILITATION RESEARCH, vol. 36, no. 2, 1 June 2013 (2013-06-01), DE, pages 146 - 151, XP055708467, ISSN: 0342-5282, DOI: 10.1097/MRR.0b013e32835b8269
- See references of WO 2018144716A1

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