

Title (en)

FINGER CUFF WITH DE-COUPLED SENSOR AND BLADDER AND ASSOCIATED METHOD

Title (de)

FINGERMANSCHETTE MIT ENTKUPPELTEM SENSOR UND BLASE UND ZUGEHÖRIGES VERFAHREN

Title (fr)

MANCHON DE DOIGT DOTÉ D'UN CAPTEUR ET D'UNE POCHE DÉCOUPLÉS ET PROCÉDÉ ASSOCIÉ

Publication

**EP 4051101 A1 20220907 (EN)**

Application

**EP 20780424 A 20200908**

Priority

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- US 2020049722 W 20200908

Abstract (en)

[origin: WO2021086497A1] Disclosed is a finger cuff connectable to a patient's finger to be used in measuring the patient's blood pressure by a blood pressure measurement system utilizing the volume clamp method. The finger cuff may comprise: a pleth cuff; a bladder cuff; an optical source and an optical sensor pair mounted in the pleth cuff, wherein the optical source and the optical sensor pair generate a pleth signal from the patient's finger; a bladder mountable within the bladder cuff, wherein the patient's finger abuts against the bladder of the bladder cuff; and a controller. The controller to control pressure applied by the bladder to the patient's finger based upon measuring the pleth signal received from the optical source and sensor pair to keep the pleth signal approximately constant to replicate the patient's blood pressure to implement the volume clamp method and to measure the patient's blood pressure.

IPC 8 full level

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