

Title (en)
METHOD FOR NON-INVASIVELY DETERMINING AT LEAST ONE BLOOD PRESSURE VALUE, MEASUREMENT APPARATUS AND SYSTEM FOR DETERMINING BLOOD PRESSURE NON-INVASIVELY

Title (de)
VERFAHREN ZUM NICHT-INVASIVEN BESTIMMEN VON WENIGSTENS EINEM BLUTDRUCKWERT, MESSVORRICHTUNG UND SYSTEM ZUR NICHT-INVASIVEN BLUTDRUCKBESTIMMUNG

Title (fr)
PROCÉDÉ POUR LA DÉTERMINATION NON INVASIVE D'AU MOINS UNE VALEUR DE PRESSION ARTÉRIELLE, DISPOSITIF DE MESURE ET SYSTÈME POUR LA DÉTERMINATION NON INVASIVE DE LA PRESSION ARTÉRIELLE

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Application
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Abstract (en)
[origin: WO2018210931A1] A method for non-invasively determining at least one blood pressure value (SAPIni, MAPIni, DAPIni) from a tissue pressure signal (TP) by means of a pressure cuff (10) applied to an individual is specified, wherein the tissue pressure signal (TP) has a sequence of tissue pressure pulse curves (PKi), the method comprising: identifying (S120) at least two individual tissue pressure pulse curves (PKi) in the tissue pressure signal (TP); determining (S150) at least one amplitude parameter (TPP) and an area parameter (TPA) for each identified tissue pressure pulse curve (PKi), wherein the amplitude parameter (TPP) indicates the amplitude of the identified tissue pressure pulse curve (PKi) and the area parameter (TPA) at least indicates one partial area (TPA.top) enclosed by the tissue pressure pulse curve (PKi); for each identified tissue pressure pulse curve (PKi), determining (S160) a pulsation power parameter (TPWP), describing the shape of the tissue pressure pulse curve (PKi), on the basis of at least the amplitude parameter (TPP) and the area parameter (TPA); producing (S170) a parameter function (TPW-curve), which describes a functional relationship between the determined pulsation power parameters (TPWP) of the tissue pressure pulse curves (PKi) and the assigned clamping pressures (TPCl) at the pressure cuff (10) or measurement times (t); establishing (S180-S195) at least one blood pressure value (SAPIni, MAPIni, DAPIni) on the basis of the parameter function (TPW-curve).

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See references of WO 2018210931A1

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