

Title (en)

APPARATUS FOR ANALYZING HRV SIGNALS (HEART RATE VARIATION)

Title (de)

VORRICHTUNG ZUR ANALYSE DER HERZFREQUENZVERÄNDERUNGSSIGNALE

Title (fr)

APPAREIL D'ANALYSE DE SIGNAUX DES VARIATIONS DE FREQUENCE CARDIAQUE

Publication

**EP 0906057 A1 19990407 (EN)**

Application

**EP 97927010 A 19970612**

Priority

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Abstract (en)

[origin: WO9747237A1] Basic research has shown that in connection with characteristic and critical changes in certain physiological conditions, e.g. critically decreasing blood sugar content with diabetic patients, there appear some preceding, marked changes in the pattern of the person's heart rate variations. According to the invention, advantage is taken of this in providing for an apparatus, e.g. shaped as a wrist watch, which currently detects the heartbeats of the person and forms an expression of the variation pattern of the last 10-50 heartbeats; the apparatus has a program unit coded with the expression that is premonitory of the relevant change and an alarm unit, which is activated if or when this expression happens to coincide with the corresponding detected expression. Hereby the person gets a chance to take countermeasures against the relevant change, which has thus been preadvised in real time. The apparatus is also applicable for indication of the stress condition of the body, which may provide useful information e.g. for strongly trained sportsmen for avoiding overtaxing.

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