

Title (en)  
WRIST-TYPE PULSE MONITOR.

Title (de)  
PULSÜBERWACHER DES ARMBAND-TYPS.

Title (fr)  
APPAREIL DE MESURE DES PULSATIONS DU TYPE A BRACELET.

Publication  
**EP 0020643 A4 19810309 (EN)**

Application  
**EP 79901644 A 19800520**

Priority  
• GB 7843934 A 19781109  
• US 4204679 A 19790524

Abstract (en)  
[origin: WO8000912A1] A wrist-mounted pulse monitor improves the speed and accuracy of heart rate measurement by providing digital readout of the rate of heartbeat and includes a sensor (2) mounted on the monitor casing (10) which is capable of detecting a heartbeat in a region where a heartbeat pulse normally occurs, a transducer (24) coupled to the sensor (22) for transforming each detected pulse into an electrical signal, a clock source (28 and 94) for producing electrical pulses at a predetermined frequency, a series of registers (42, 48 and 62) coupled to the transducer and the clock source for counting the number of pulses occurring between detected heartbeats, and an arithmetic unit (80) coupled to the counting registers for converting the counted clock pulse to a heartbeat rate and a display (90) for visually displaying the rate in digital form.

IPC 1-7  
**A61B 5/02**

IPC 8 full level  
**A61B 5/024** (2006.01); **A61B 5/0245** (2006.01)

CPC (source: EP)  
**A61B 5/02438** (2013.01)

Citation (search report)  
• US 3717140 A 19730220 - GREENWOOD E  
• US 4108166 A 19780822 - SCHMID WALTER  
• DE 2736377 A1 19780223 - CHAPUIS LAURENT

Designated contracting state (EPC)  
DE FR NL

DOCDB simple family (publication)  
**WO 8000912 A1 19800515**; EP 0020643 A1 19810107; EP 0020643 A4 19810309; HK 65684 A 19840831; IT 1162436 B 19870401; IT 7950785 A0 19791108; JP S55501167 A 19801225; SG 30884 G 19850308

DOCDB simple family (application)  
**US 7900962 W 19791109**; EP 79901644 A 19800520; HK 65684 A 19840823; IT 5078579 A 19791108; JP 50209879 A 19791109; SG 30884 A 19840417