

Philips Wearable Sensing technologies has developed in the last 10 years significant amount of IP and know how in the field of continuous unobtrusive wearable monitoring in all the key elements of its solution: sensing, electronics and algorithms.

The relevant part of this IP has been protected by patents and patent applications which, together with our know how, contribute to actually make our solutions unique.

Below the WeST public patent portfolio (published and/or granted):

PF #	Title	Priority date	WO Publication #	Countries
2008PF01006	Interference (beating) detection and suppression for presence detection in monitors	13/06/2008	WO2009150618	EP, CN, IN, JP, KR, US
2010PF00965	Pitch Detector Using Combined Spectra	10/11/2010	WO2012063185	EP, BR, CN, IN, JP, RU, US
2011PF01016	Method for estimating heart-rate during motion	16/09/2011	WO2013038296	EP, BR, CN, IN, JP, RU, US
2011PF02204	Improved synchronous detection	18/06/2012	WO2013190423	EP, CN, IN, RU
2012PF01625	Optical sensor with frame protection for heart rate monitoring	14/12/2012	WO2014091424	EP, BR, CN, IN, JP, RU, US
2013PF00601	Combining different HR features (recovery, HR peak, HRV, etc) according to context and behaviour to reliably assess fitness in free-living conditions	16/09/2013	WO2015049113	
2013PF00555	Robust and efficient time domain signal processing method for feature extraction from periodic bio-signals	1/10/2013	WO2015036289	
2013PF02089	Optical heart rate sensor with depth information for improved movement correction	4/2/2014	WO2015128226	
2013PF02083	Gesture tracking using an optical sensor having at least two light sources	12/2/2014	WO2015121100	
2013PF02080	Cycling cadence monitoring at the wrist or arm	26/02/2014	WO2015150199	
2013PF02095	Wrist worn camera for vital body signs detection	6/3/2014	WO2015150434	
2013PF02092	Method of increasing battery life in Heart Rate monitors using data from additional sensors	17/03/2014	WO2015/117829	
2013PF02093	Selection of a Heart Rate candidate	17/03/2014 26/03/2014	WO2015139980	
2013PF02085	Unobtrusive fertility tracking method and apparatus using HR and HRV	1/4/2014	WO2015139930	
2013PF02084	Unobtrusive atrial fibrillation detection	2/4/2014	WO2015132063	
2013PF02096	Improved ambient light cancellation	3/4/2014	WO2015150200	
2014PF00251	Silicone composite heart rate detection	12/5/2014	WO2015172897	
2014PF00392	Modulated Photoplethysmographic Sensor featuring Activity Monitoring	22/05/2014	WO2015176999	
2014PF00327	Motion artifact reduction using multi-channel PPG signals	28/05/2014	WO2015180986	
2014PF00507	Method to estimate resting heart rate from daily measurements of heart rate and body movement	12/6/2014	WO2015189304	
2014PF00549	Photoplethysmograph Sensor for Monitoring Animal's Cardio-respiratory signals	26/06/2014	WO2015197385	
2014PF00627	PPG sensor with ambient light compensation loop	30/06/2014	WO2016000986	