

SEARCH HISTORY

Application Number	PCT/US 18/52776
Search Conducted By	BAM
Search Approved By	BAM

IPC/CPC Classifications Searched	IPC(8)- A61B 5/11; G08B 21/04 (2018.01) CPC- A61B 5/0002; A61B 5/1117; A61B 5/6802; A61B 5/72; G08B 21/0446; G08B 21/0453
Date Conducted	15 November 2018 (15.11.2018)

Documentation Searched	IPC(8)- A61B 5/11; G01P 15/00; G08B 21/02,04 (2018.01) CPC- A61B 5/0002,1117,1126,6801,6802,681,72,7275; G01P 15/00; G08B 21/0446,0453 USPC- 340/539.11,539.12,573.1,573.7; 702/141
Search Terms Used	fall, sensor, detector, monitor, medical, physiological, user, housing, wrist, wearer, wearable, motion, accelerometer, decrease, reduce, acceleration, recovery, wireless, radio, memory, timer, threshold, predetermined, reference, compare, alert, alarm, emergency, photoplethysmographic
Date Conducted	15 November 2018 (15.11.2018)

Electronic Database Searched	Patbase
Files Searched	Full-text: AU BE BR CA CH CN DE DK EP ES FI FR GB IN JP KR SE TH TW US WO Bibliographic: (Europe) AT BA BE BG CH CS CY CZ DD DK EE ES FI GE GR HR HU IE IS IT LT LU LV MC MD MT NL NO PL PT RO RS SE SI SK SM TR UA YU (Asia) EA GC HK ID IL IN KZ MN MY PH RU SG SU TH TJ TW UZ VN (North America) CA CR CU DO GT HN MX NI PA SV TT (South America) AR BR CL CO EC PE UY (Australasia) AU NZ (Africa) AP DZ EG KE MA MW OA ZA ZM ZW
Date Conducted	15 November 2018 (15.11.2018)

Search Logic:

Search 1:	IC=(A61B5/11 or G01P15/00 or G08B21/02 or G08B21/04) (Results 45469)
Search 2:	CPC=(A61B5/0002 or A61B5/1117 or A61B5/1126 or A61B5/6801 or A61B5/6802 or A61B5/681 or A61B5/72 or A61B5/7275 or G01P15/00 or G08B21/0446 or G08B21/0453) (Results 16121)
Search 3:	UC=(340/539.11 or 340/539.12 or 340/573.1 or 340/573.7 or 702/141) (Results

	7302)
Search 4:	1 or 2 or 3 (Results 60648)
Search 5:	4 and FT=((detect* or sens* or monitor*) near (reduc* or decreas*)) near accelerat* (Results 169)
Search 6:	CPC=(A61B5/1117) (Results 825)
Search 7:	6 and SP=(timer% and acceler*) (Results 25)
Search 8:	4 and FT=recover* near accelerat* (Results 52)
Search 9:	PN=(US9489815 or US6819247) (Results 2)
Search 10:	4 and FT=fall* near (detect* or sens* or monitor*) (Results 3594)
Search 11:	10 and SP=(speaker and (confirm* or dismiss*) and (alert* or emergency or alarm*)) (Results 23)
Search 12:	SP=(photoplethysmograph* and blood near flow* and (heartrate% or heart rate%) and display*) (Results 35)
Search 13:	FT=(photoplethysmograph* and blood near flow* and (heartrate% or heart rate%) and display*) (Results 1251)
Search 14:	13 and FT=((measur* or detect* or sens* or monitor*) near (time% or period%)) near second (Results 108)
Search 15:	CTF 9 or CTB 9 (Results 185)

Electronic Database Searched	Proquest Dialog
Files Searched	NPL Databases: ABI/INFORM® Professional Standard, AGRICOLA, AGRIS, Allied & Complementary Medicine™, Analytical Abstracts, British Library Inside Conferences, British Nursing Index, Business & Industry, Business Monitor International, Chemical Business Newsbase, Chemical Engineering & Biotechnology Abstracts, Current Contents® Search, Economist Intelligence Unit, Ei EnCompassLIT, Emerging Markets Direct, Energy Science and Technology, ESPICOM Pharmaceutical & Medical Device News, FDAnews, FLUIDEX (Fluid Engineering Abstracts), Gale Group Computer Database™, Gale Group Health Periodicals Database, Gale Group New Product Announcements / Plus®, Gale Group Newsletter Database™, Gale Group PharmaBiomed Business Journals, Gale Group PROMT®, Gale Group Trade & Industry Database™, GEOBASE?, HSELINE: Health and Safety, ICONDA - International Construction Database, Inspec®, Jane's Defense & Aerospace News, Lancet Titles, Material Safety Datasheets -OHS™, MEDLINE®, New England Journal of Medicine, Paperbase, PAPERCHEM, PASCAL, PIRABASE, ProQuest Biological & Health Science Professional, ProQuest Environmental Science Professional, ProQuest Newsstand Professional, ProQuest Research, ProQuest Technology Research Professional, Registry of Toxic Effects of Chemical Substances (RTECS®), ToxFile®, Transport Research International Documentation, TULSA™ (Petroleum Abstracts), UBM Computer Full Text, Weldasearch®
Date Conducted	15 November 2018 (15.11.2018)
Search Logic:	

S1: fall near (sens* or detect* or monitor*) and (physiolog* or medical) near (sens* or detect* or monitor*) and wear* (1103 results)

S2: S1 and (decreas* or reduc*) near accelerat* (33 results)

S3: S1 and recover* near accelerat* (8 results)

Electronic Database Searched	Google Patents
Files Searched	US, USPGPub, EPO, WIPO, China, Germany, Canada
Date Conducted	15 November 2018 (15.11.2018)

Search Logic:

fall (sensor OR detector OR monitor) (medical OR physiological) (user OR wearer OR wearable OR wrist) housing (motion OR accelerometer) (About 266,181 results)

fall (sensor OR detector OR monitor) (user OR wearer OR wearable OR wrist) (decrease OR reduce) acceleration recovery (About 164,445 results)

fall (sensor OR detector OR monitor) (user OR wearer OR wearable OR wrist) (wireless OR radio) memory timer (threshold OR reference OR compare) (alert OR alarm OR emergency) (About 536,507 results)

fall (sensor OR detector OR monitor) (user OR wearer OR wearable OR wrist) photoplethysmographic (About 3,519 results)

fall (sensor OR detector OR monitor) timer recovery accelerometer threshold (alarm OR alert OR emergency) (About 7,692 results)

fall (sensor OR detector OR monitor) timer accelerometer "first threshold" "second threshold" "third threshold" (About 765 results)

fall (sensor OR detector OR monitor) timer accelerometer "first predetermined" "second predetermined" "third predetermined" (About 724 results)

Electronic Database Searched	Google Scholar
Files Searched	Articles excluding patents
Date Conducted	15 November 2018 (15.11.2018)

Search Logic:

fall (sensor OR detector OR monitor) (medical OR physiological) (user OR wearer OR wearable OR wrist) housing (motion OR accelerometer) (About 29,800 results)

fall (sensor OR detector OR monitor) (user OR wearer OR wearable OR wrist) (decrease OR reduce) acceleration recovery (About 46,300 results)

fall (sensor OR detector OR monitor) (user OR wearer OR wearable OR wrist) (wireless OR radio) memory timer (threshold OR reference OR compare) (alert OR alarm OR emergency) (About 21,400 results)

fall (sensor OR detector OR monitor) (user OR wearer OR wearable OR wrist) photoplethysmographic (About 3,120 results)

fall (sensor OR detector OR monitor) timer recovery accelerometer threshold (alarm OR alert OR emergency) (About 9,060 results)

fall (sensor OR detector OR monitor) timer accelerometer "first threshold" "second threshold" "third threshold" (About 15 results)

fall (sensor OR detector OR monitor) timer accelerometer "first predetermined" "second predetermined" "third predetermined" (1 result)