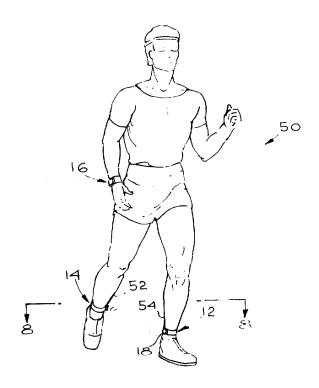
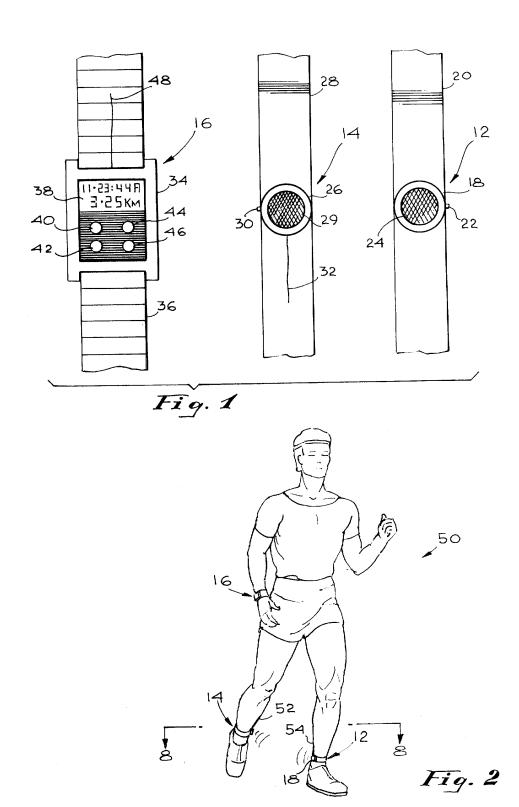
<b>United States Patent</b>	[19]	[11]	4,371,945
Varr et al		[45]	Feb. 1, 1983

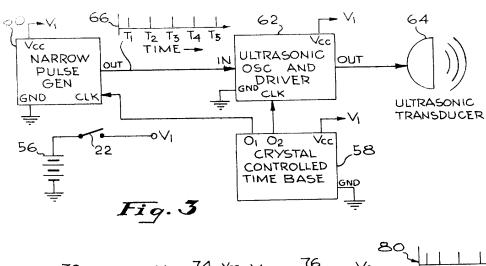
[54]		NIC PEDOMETER	4,283,712 8/1981 G 4,285,041 8/1981 Si		
[75] Inventors		Lawrence J. Karr, 220 Horizon St., Venice, Calif. 90291; Gary L. Wasserman, 2669 Rambla Pacifico, Malibu, Calif. 90265; George R.	Primary Examiner—Gar Attorney, Agent, or Firm-		
		Boehme, Venice, Calif.	[57] <b>A</b> B		
[73]	Assignees:	Lawrence Joseph Karr; Gary Lee Wasserman, both of Marine del Rey, Calif.	A pedometer is disclosed a user walks, jogs or ruthe length of each stride is measured using ultra		
[21]	Appl. No.:	211,684	comprises an ultrasonic		
[22]	Filed:	Dec. 1, 1980	strapped to one leg of the module is strapped to t		
[51] [52] [58]	U.S. Cl Field of Se	G01C 22/00 364/561; 364/410; 235/92 DN; 235/105; 340/323 R earch 272/70, 73, 100, DIG. 6; 113, 560, 561, 565, 410; 367/99; 235/92 92 MT, 92 PE, 92 CP, 105; 340/323 R	generator module emit which are detected by t sor and display module also provided. The proc late stride length based time delay between puls		
[56]		References Cited	leg-mounted modules.		
	U.S.	PATENT DOCUMENTS	displaying on a digital time per unit distance, el		
	4,049,954 9/ 4,053,755 10/ 4,220,996 9/	/1970 Heywood 340/323 R   /1977 Da Costa Vieira et al. 364/560   /1977 Sherrill 235/92 DN   /1980 Searcy 364/561   /1980 Allsen et al. 235/92 DN	pedometer is also prog variety of measurement		

ed which calculates the distance uns by electronically measuring taken by the user. Stride length asonic waves. The pedometer ic generator module which is the user. An ultrasonic detector the other leg of the user. The ts pulses of ultrasonic energy the detector module. A procesin the form of a wristwatch is ocessor module is used to calcuon the speed of sound and the lses emitted and detected by the The pedometer is capable of display the distance traveled, elapsed time and time of day. The grammed to compensate for a t errors.

### 15 Claims, 12 Drawing Figures







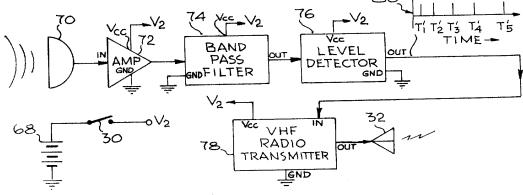
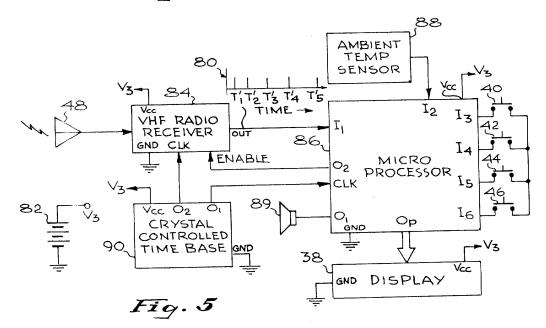
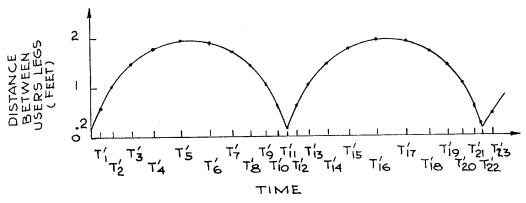


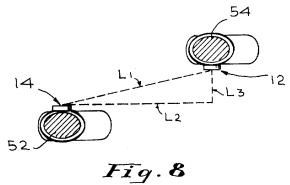
Fig. 4

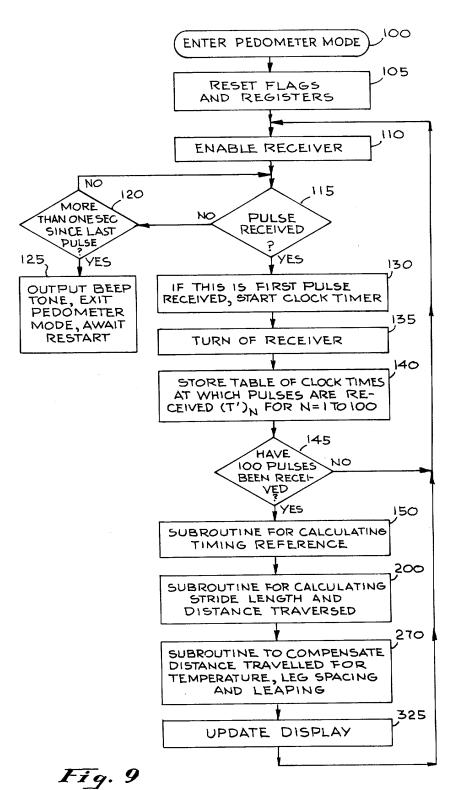




PULSE	TIME (SEC)	PULSE	TIME (SEC)	PULSE	TIME (SEC)
T' =	.03045	T'9 =	.27090	T'17 =	.51168
T'2 =	.06090	T'10 =	.30045	T'18 =	. 54 144
T'3 =	.09126	T'11 =	. 33000	T'19 =	.57117
T'4 =	.12153	T'12 =	.36045	T'20 =	.60090
T'5 =	.15182	T'13 =	.39090	T'21 =	.63054
T'6 =	.18171	T'14 =	.42126	T'22 =	.66009
Τ'7 =	.21144	T'15 =	.45153	T'23 =	.69045
Tá =	.24126	T16 =	.48171		

Fig. 7





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