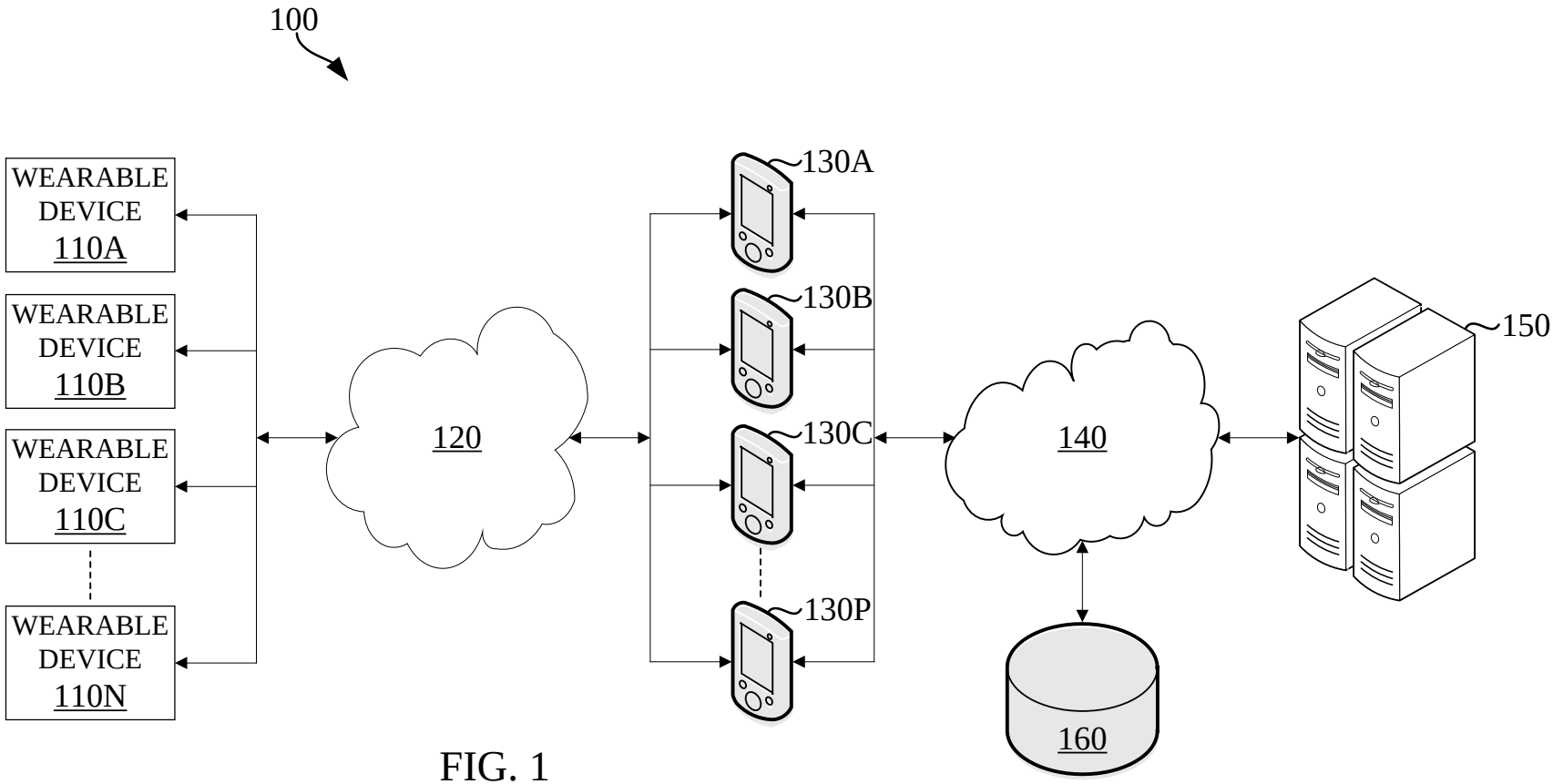

100
WEARABLE DEVICE 110A
WEARABLE DEVICE 110B
WEARABLE DEVICE 110C
WEARABLE DEVICE 110N
120
130A
130B
130C
130P
140
150
160

FIG. 1

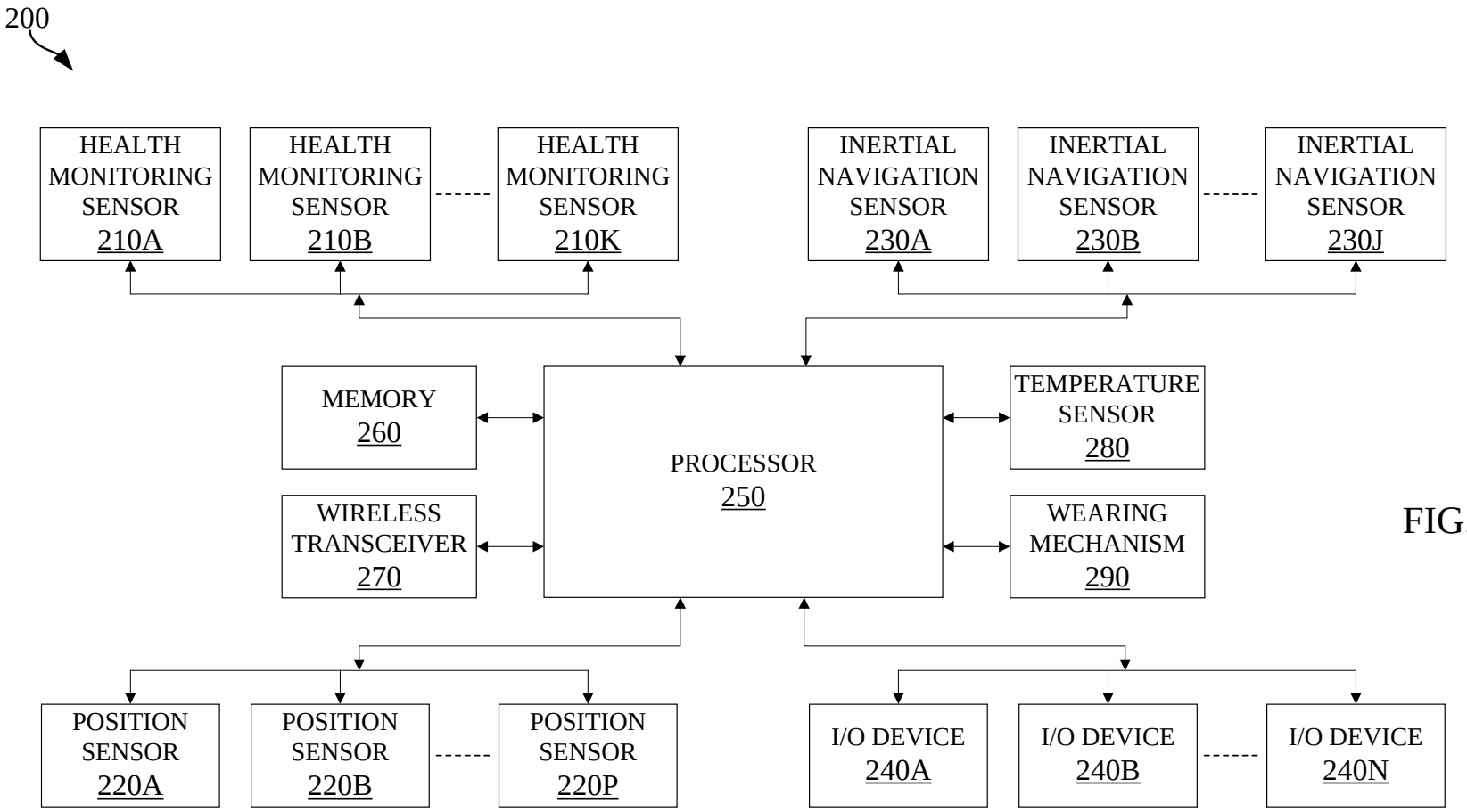

200
HEALTH MONITORING SENSOR 210A
HEALTH MONITORING SENSOR 210B
HEALTH MONITORING SENSOR 210K
INERTIAL NAVIGATION SENSOR 230A
INERTIAL NAVIGATION SENSOR 230B
INERTIAL NAVIGATION SENSOR 230J
MEMORY 260
PROCESSOR 250
TEMPERATURE SENSOR 280
WIRELESS TRANSCEIVER 270
WEARING MECHANISM 290
POSITION SENSOR 220A
POSITION SENSOR 220B
POSITION SENSOR 220P
I/O DEVICE 240A
I/O DEVICE 240B
I/O DEVICE 240N

FIG. 2

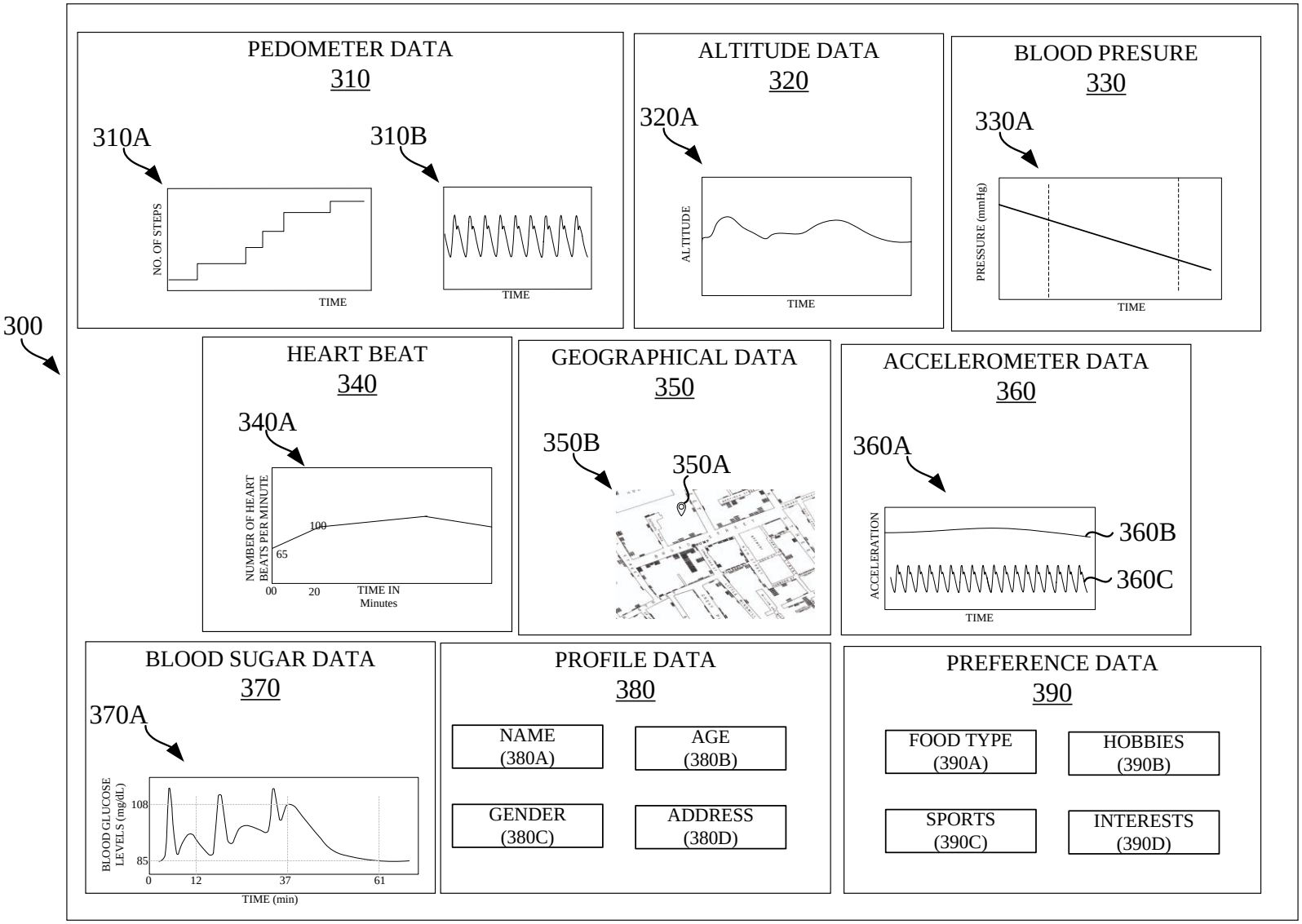

300
PEDOMETER DATA
310
310A
310B
NO. OF STEPS
TIME
TIME
ALTITUDE DATA
320
320A
ALTITUDE
TIME
BLOOD PRESURE
330
330A
PRESSURE (mmHg)
TIME
HEART BEAT
340
340A
NUMBER OF HEART BEATS PER MINUTE
100
65
00
20
TIME IN Minutes
GEOGRAPHICAL DATA
350
350B
350A
ACCELEROMETER DATA
360
360A
360B
360C
ACCELERATION
TIME
BLOOD SUGAR DATA
370
370A
BLOOD GLUCOSE LEVELS (mg/dL)
108
85
0
12
37
61
TIME (min)
PROFILE DATA
380
NAME (380A)
AGE (380B)
GENDER (380C)
ADDRESS (380D)
PREFERENCE DATA
390
FOOD TYPE (390A)
HOBBIES (390B)
SPORTS (390C)
INTERESTS (390D)

FIG. 3

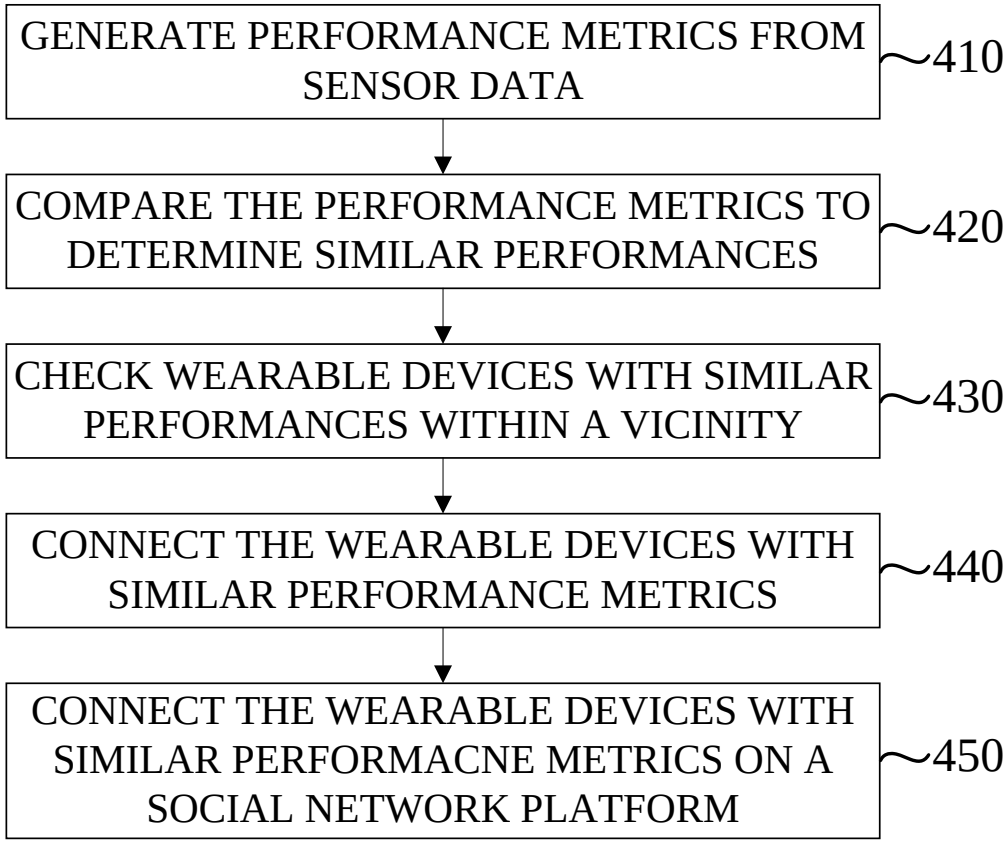

GENERATE PERFORMANCE METRICS FROM SENSOR DATA
410
COMPARE THE PERFORMANCE METRICS TO DETERMINE SIMILAR PERFORMANCES
420
CHECK WEARABLE DEVICES WITH SIMILAR PERFORMANCES WITHIN A VICINITY
430
CONNECT THE WEARABLE DEVICES WITH SIMILAR PERFORMANCE METRICS
440
CONNECT THE WEARABLE DEVICES WITH SIMILAR PERFORMACNE METRICS ON A SOCIAL NETWORK PLATFORM
450

FIG. 4

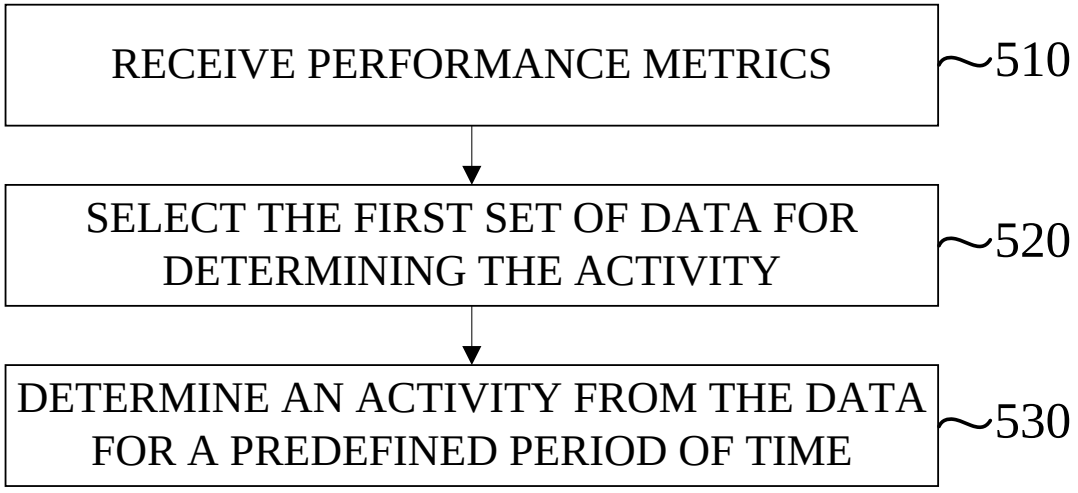

RECEIVE PERFORMANCE METRICS
510
SELECT THE FIRST SET OF DATA FOR DETERMINING THE ACTIVITY
520
DETERMINE AN ACTIVITY FROM THE DATA FOR A PREDEFINED PERIOD OF TIME
530

FIG. 5

601

ACTIVITY WALKING	
PEDOMETER	30-50
ACCELEROMETER	2KM TO 5KM
POSITION	PATH

602

ACTIVITY RUNNING	
PEDOMETER	51-100
ACCELEROMETER	5.1KM TO10KM
POSITION	PATH

603

ACTIVITY TREADMILL	
PEDOMETER	30-100
ACCELEROMETER	00
POSITION	POINT

604

ACTIVITY CYCLING	
PEDOMETER	00
ACCELEROMETER	5.1KM to 15KM
POSITION	PATH
HEART BEAT	90-120

FIG. 6

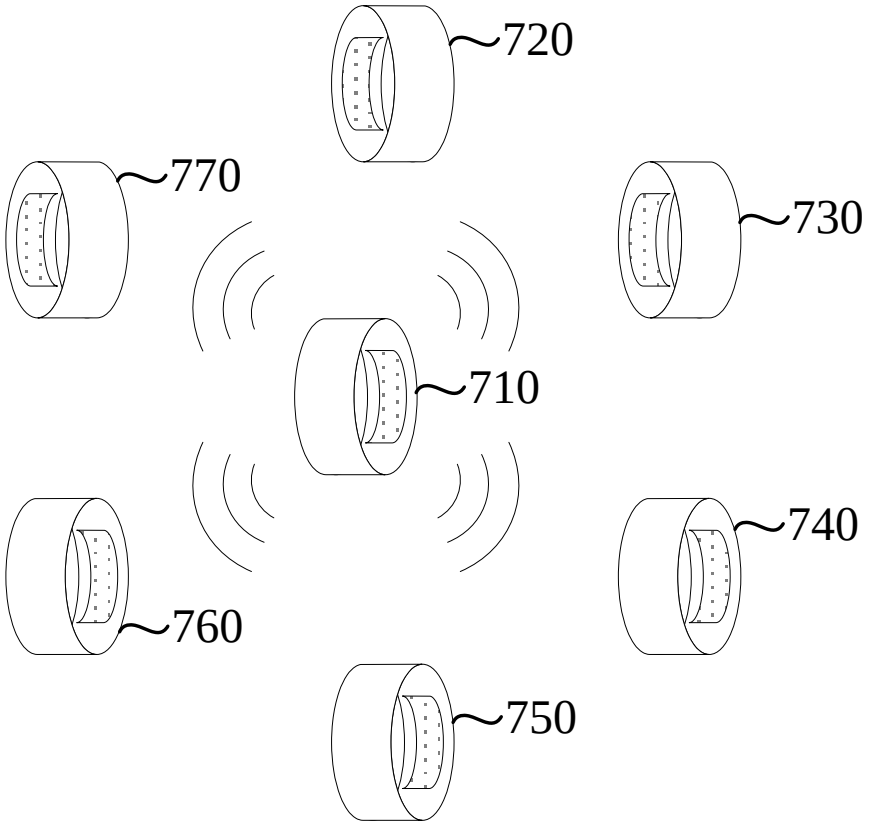


FIG. 7A

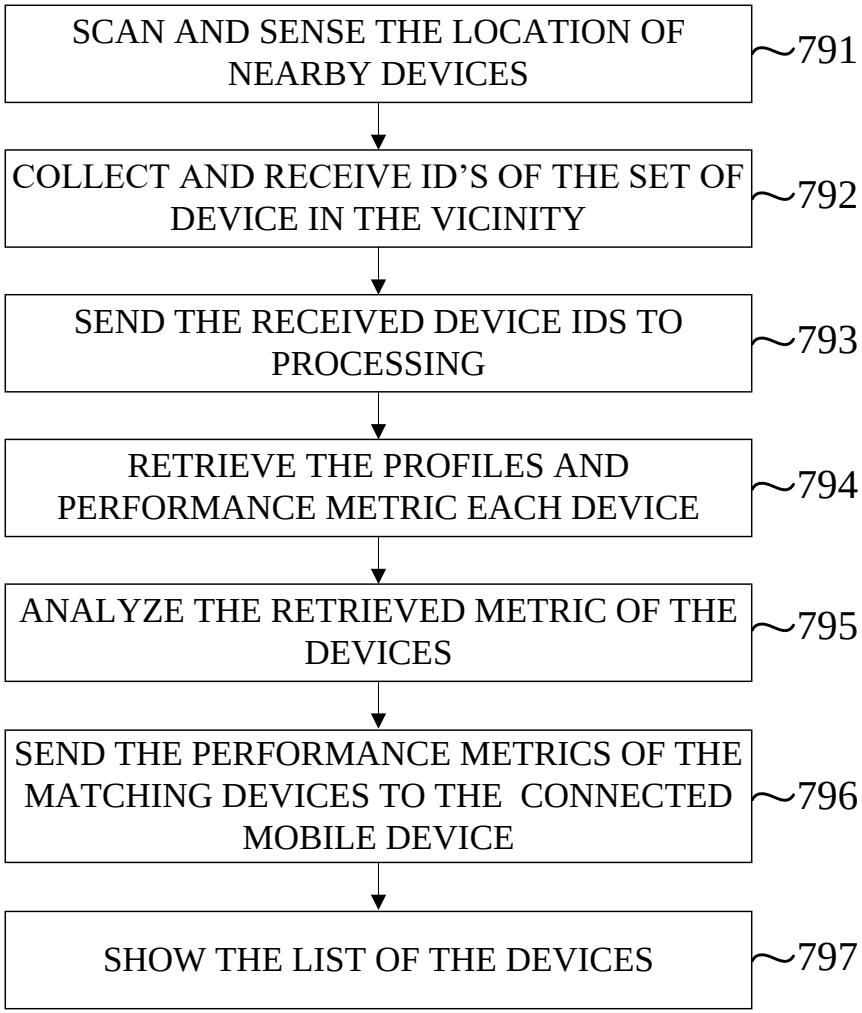

SCAN AND SENSE THE LOCATION OF NEARBY DEVICES
791
COLLECT AND RECEIVE ID'S OF THE SET OF DEVICE IN THE VICINITY
792
SEND THE RECEIVED DEVICE IDS TO PROCESSING
793
RETRIEVE THE PROFILES AND PERFORMANCE METRIC EACH DEVICE
794
ANALYZE THE RETRIEVED METRIC OF THE DEVICES
795
SEND THE PERFORMANCE METRICS OF THE MATCHING DEVICES TO THE CONNECTED MOBILE DEVICE
796
SHOW THE LIST OF THE DEVICES
797

FIG. 7B

	USER PARAMETERS CONSIDERED FOR PROFILING 891	USER 1 892	USER 2 893	WEIGHTAGE 894	PRIORITY 895
861	TYPE OF ACTIVITY (MOST PERFORMED ACTIVITY)	RUNNING	RUNNING	100%	1
862	CALORIES BURNT DURING THE ACTIVITY (AVERAGE VALUE, PEAK VALUE, LOW VALUE)	1000	1500	>60%	4
863	TIME OF ACTIVITY DURING DAY	6:00AM	6:30AM	>70%	5
864	DISTANCE COVERED	2KM	3KM	>60%	4
865	HEART RATE OF USER	120 BPM	110 BPM	>80%	3
866	GEOGRAPHICAL LOCATION OF THE ACTIVITY	PARK A	PARK A	100%	2
867	PATTERN	WALK-JOG-RUN-WALK	JOG-RUN-JOG	>70%	6
868	ACTIVITY HISTORY OF USER - CONSISTENCY	2 DAYS, A WEEK	4 DAYS, A WEEK	>30%	5
869	PACE OF USER	9 KMPH	10 KMPH	>70%	3
870	AGE OF USER	35 YEARS	28 YEARS	>60%	7
871	PARTICIPATION HISTORY IN SPORTS EVENTS OF USER	NA	4 EVENTS PARTICIPATED	>30%	8

FIG. 8