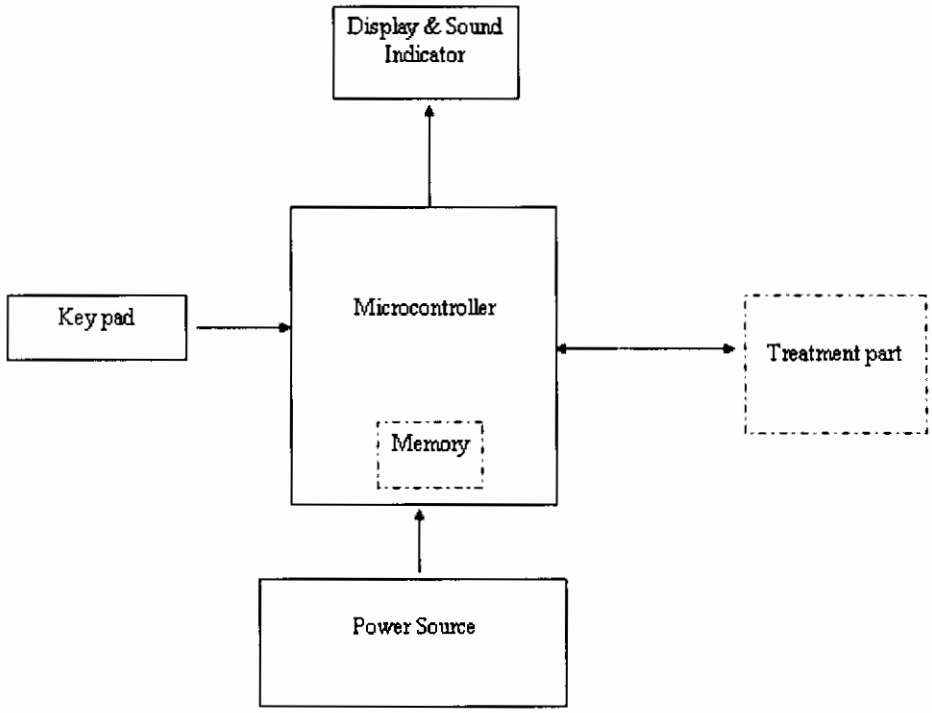
Display & Sound Indicator
Key pad
Microcontroller
Memory
Treatment part
Power Source

FIG. 1

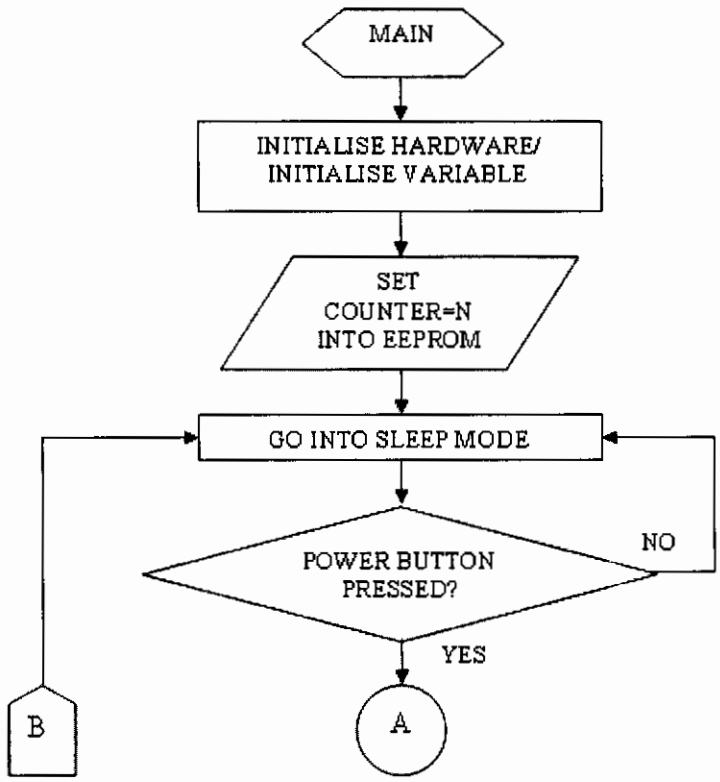
MAIN
INITIALISE HARDWARE/
INITIALISE VARIABLE
SET
COUNTER=N
INTO EEPROM
GO INTO SLEEP MODE
POWER BUTTON
PRESSED?
NO
YES
B
A

FIG. 2

5

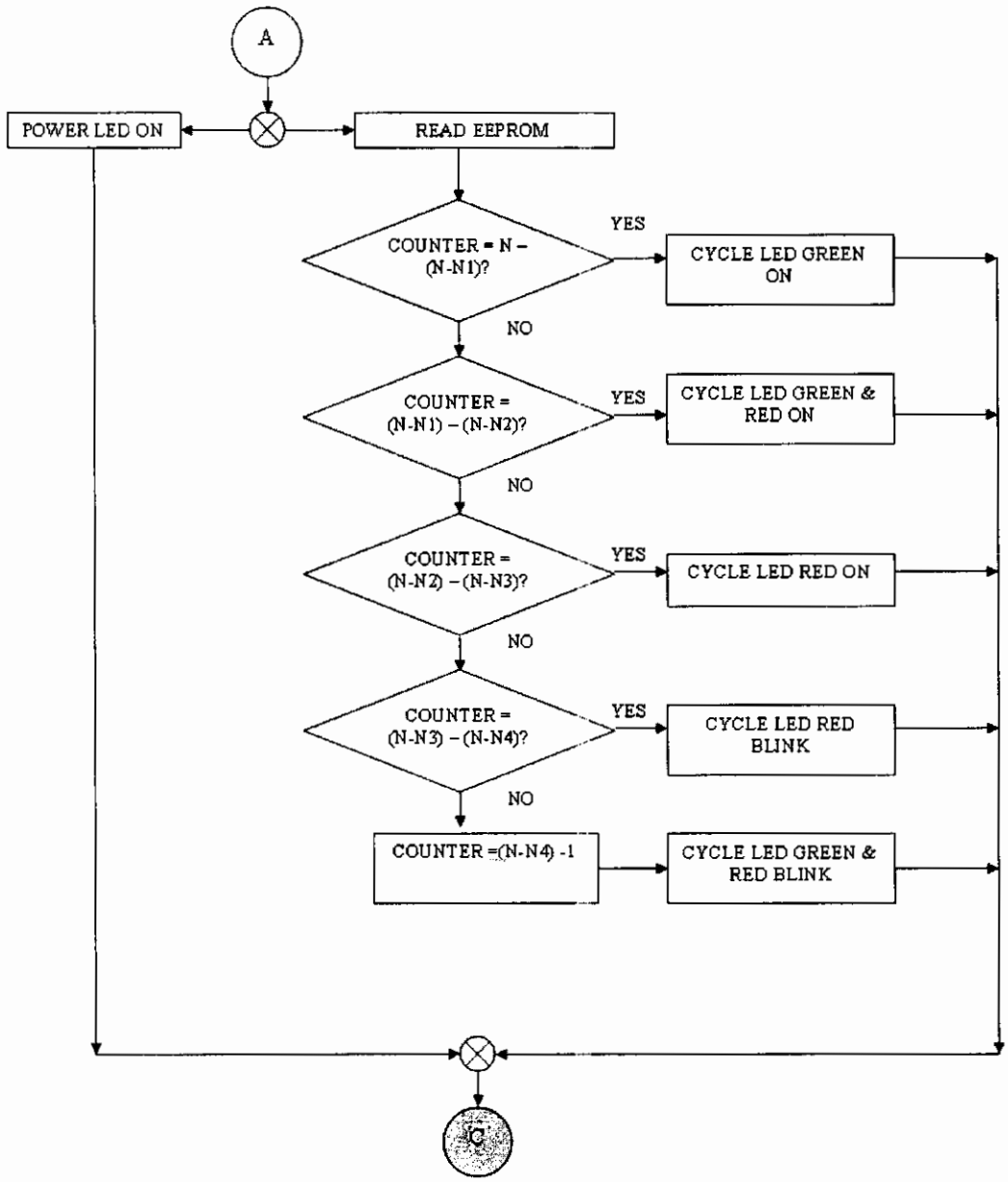
A
POWER LED ON
READ EEPROM
COUNTER = N – (N-N1)?
YES
CYCLE LED GREEN ON
NO
COUNTER = (N-N1) – (N-N2)?
YES
CYCLE LED GREEN & RED ON
NO
COUNTER = (N-N2) – (N-N3)?
YES
CYCLE LED RED ON
NO
COUNTER = (N-N3) – (N-N4)?
YES
CYCLE LED RED BLINK
NO
COUNTER =(N-N4) -1
CYCLE LED GREEN & RED BLINK
C

FIG. 3

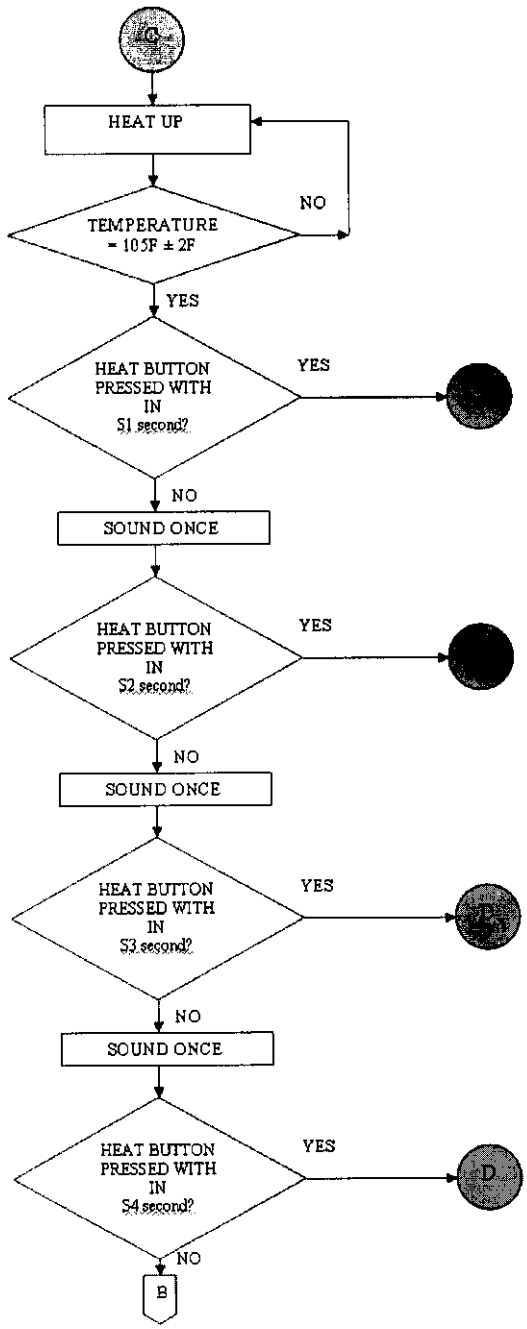
C
HEAT UP
TEMPERATURE = 105F ± 2F
NO
YES
HEAT BUTTON PRESSED WITH IN S1 second?
YES
NO
SOUND ONCE
HEAT BUTTON PRESSED WITH IN S2 second?
YES
NO
SOUND ONCE
HEAT BUTTON PRESSED WITH IN S3 second?
YES
NO
SOUND ONCE
HEAT BUTTON PRESSED WITH IN S4 second?
YES
D
NO
B

FIG. 4

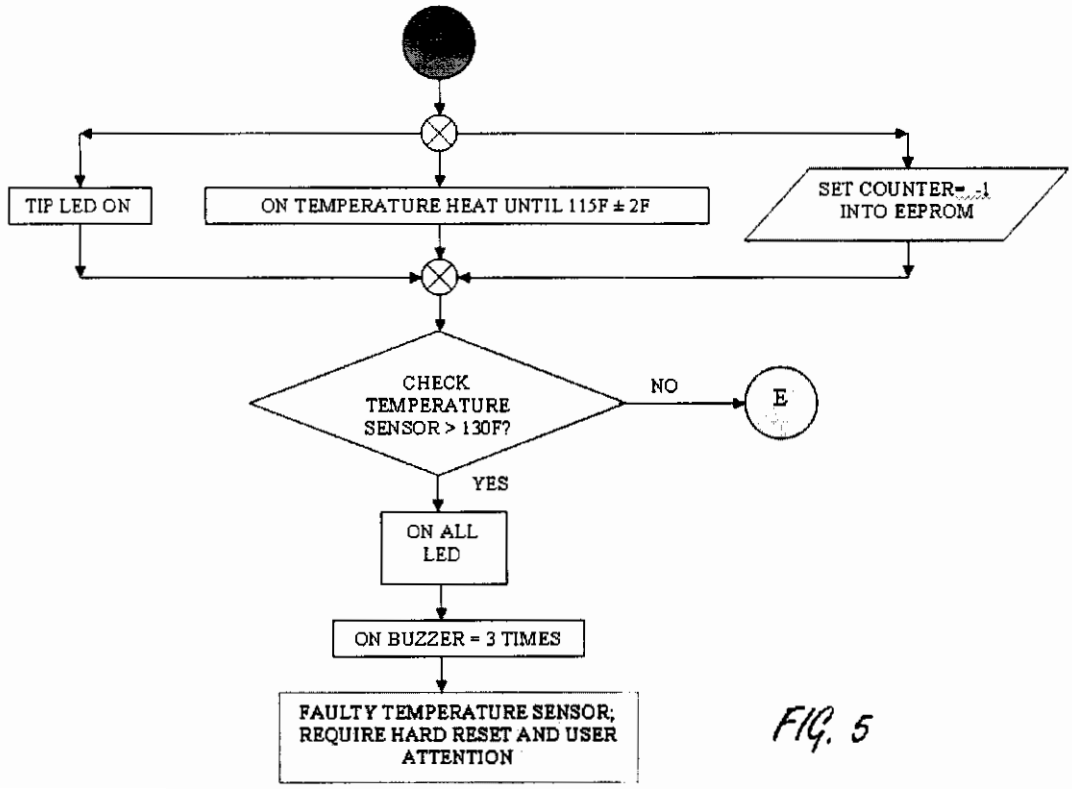
TIP LED ON
ON TEMPERATURE HEAT UNTIL 115F ± 2F
SET COUNTER=1
INTO EEPROM
CHECK
TEMPERATURE
SENSOR > 130F?
NO
E
YES
ON ALL
LED
ON BUZZER = 3 TIMES
FAULTY TEMPERATURE SENSOR;
REQUIRE HARD RESET AND USER
ATTENTION

FIG. 5

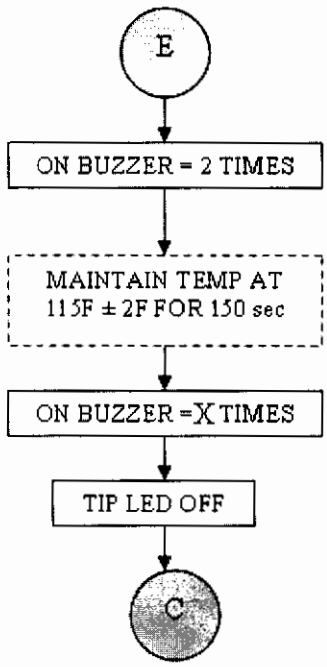
E
ON BUZZER = 2 TIMES
MAINTAIN TEMP AT
115F ± 2F FOR 150 sec
ON BUZZER = X TIMES
TIP LED OFF
C

FIG. 6

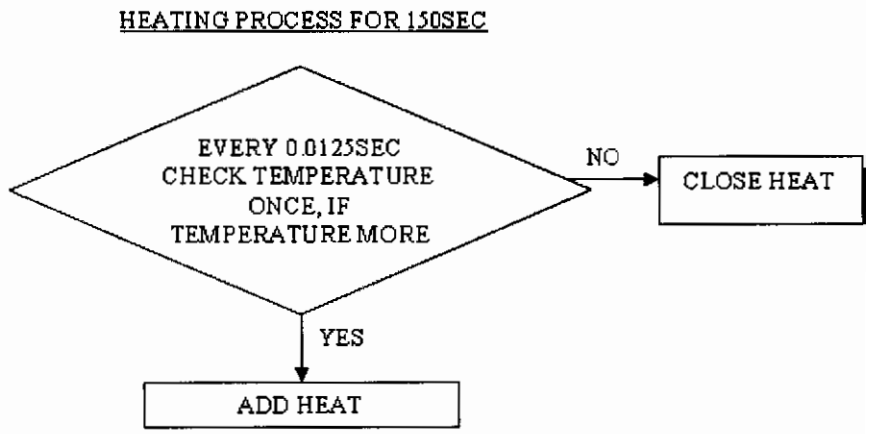
HEATING PROCESS FOR 150SEC
EVERY 0.0125SEC
CHECK TEMPERATURE
ONCE, IF
TEMPERATURE MORE
NO
CLOSE HEAT
YES
ADD HEAT

FIG. 7