FIG. 5A

PERFORM PITCH TRACKING

-53

$$temp1 = \min_{i \in [1,N]} \{E(i) - 2H(i)\}$$

$$Lmin = i \ at \ min$$

-54

$temp1 > eps*E(Lmin)$ — FALSE

TRUE

-55

$Lmin == 1$ or $Lmin == N$ — FALSE

TRUE

-56

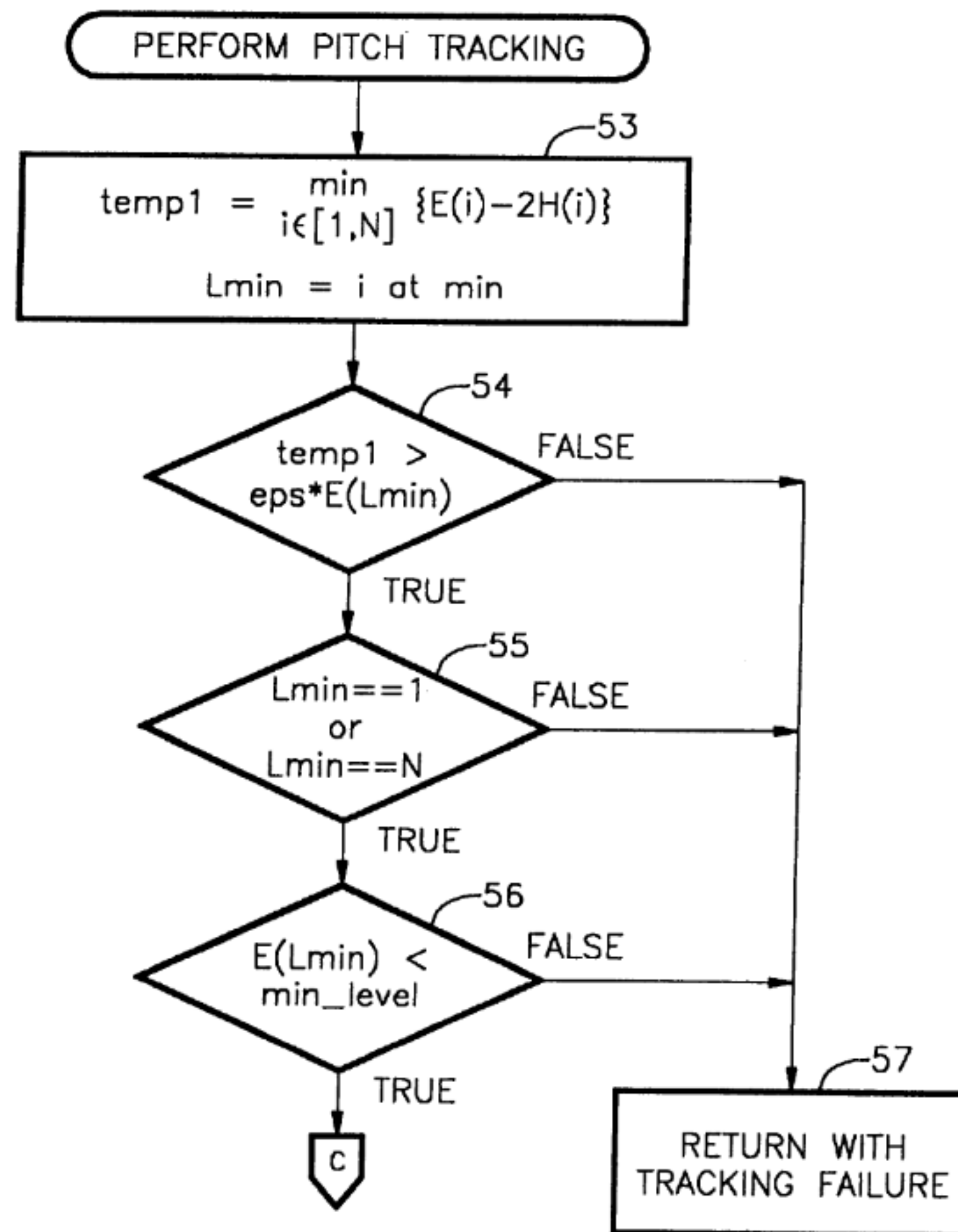$E(Lmin) < min\_level$ — FALSE

TRUE

C

-57

RETURN WITH TRACKING FAILURE

Won't it just make clicking sounds?

- It turns out that the human voice is pretty consistent from cycle to cycle, which helps

- There are several cases where a pitch can't be tracked confidently, returning a "tracking failure" - this means that the read rate returns to one and overruns or underruns are not possible and clicks are avoided.
  - 54 - if the signal isn't periodic enough
  - 55 - if the pitch is at the edges of the high resolution neighbourhood (changing too quickly)
  - 56 - if the energy (i.e. amplitude) is lower than a set threshold

Conclusions