

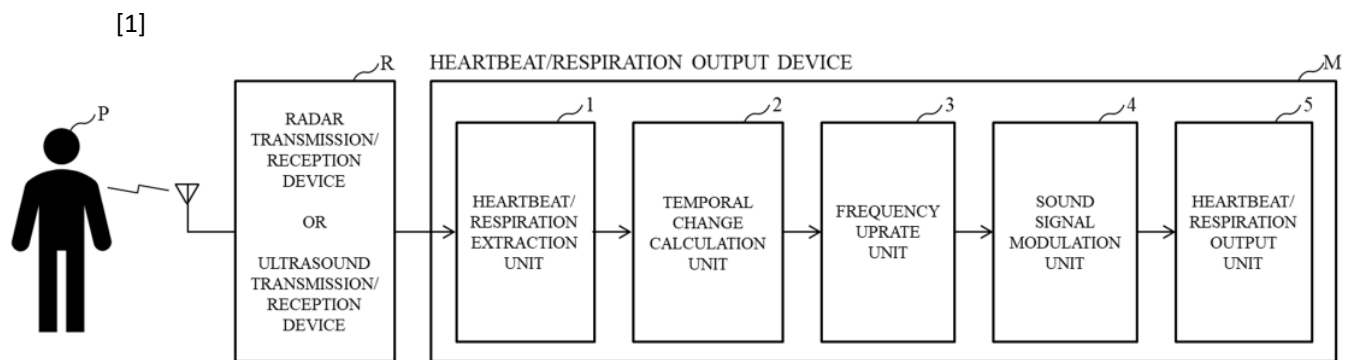


FIG. 1

[2]

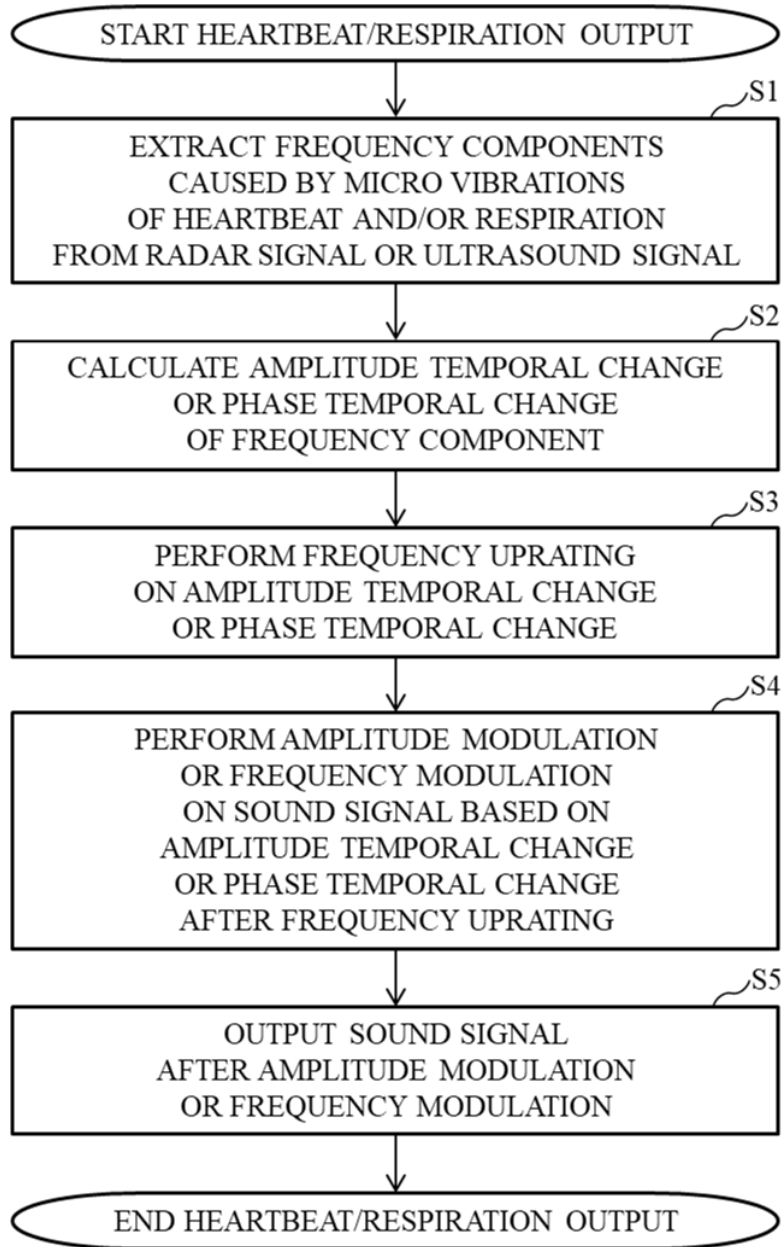


FIG. 2

[3]

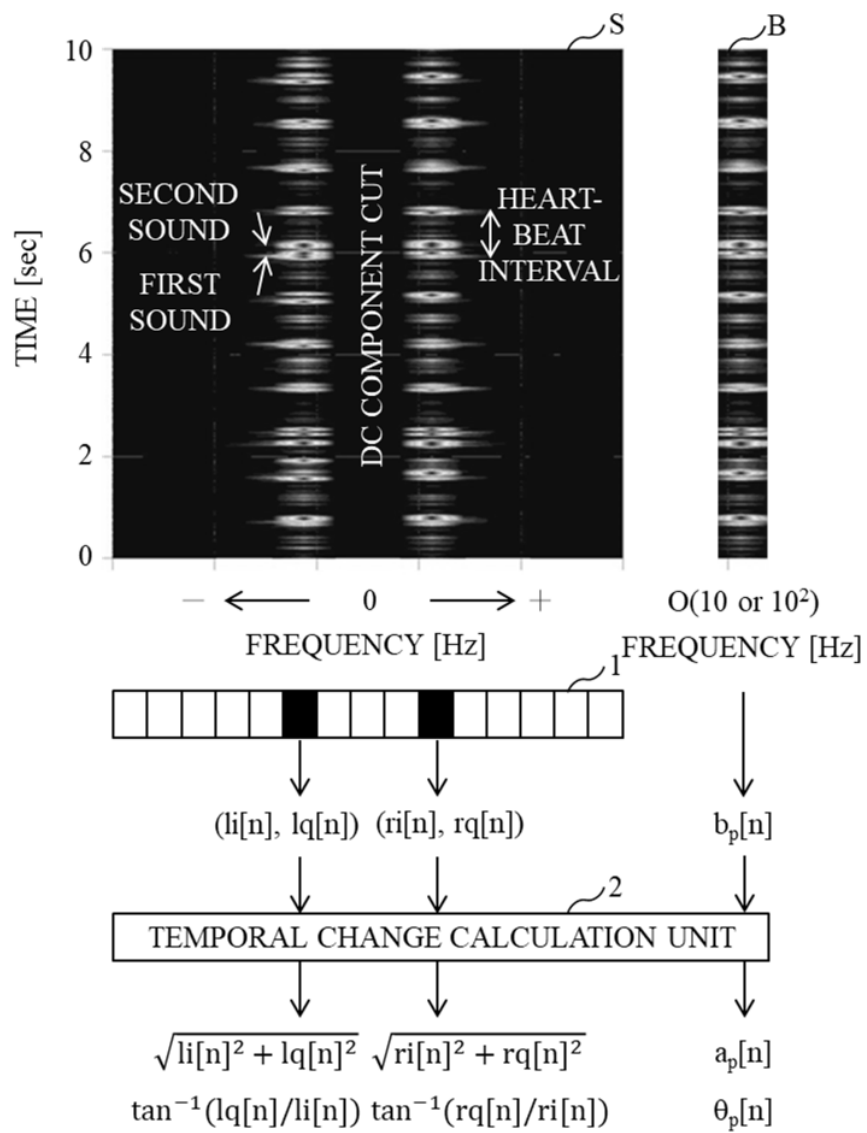


FIG. 3

[4]

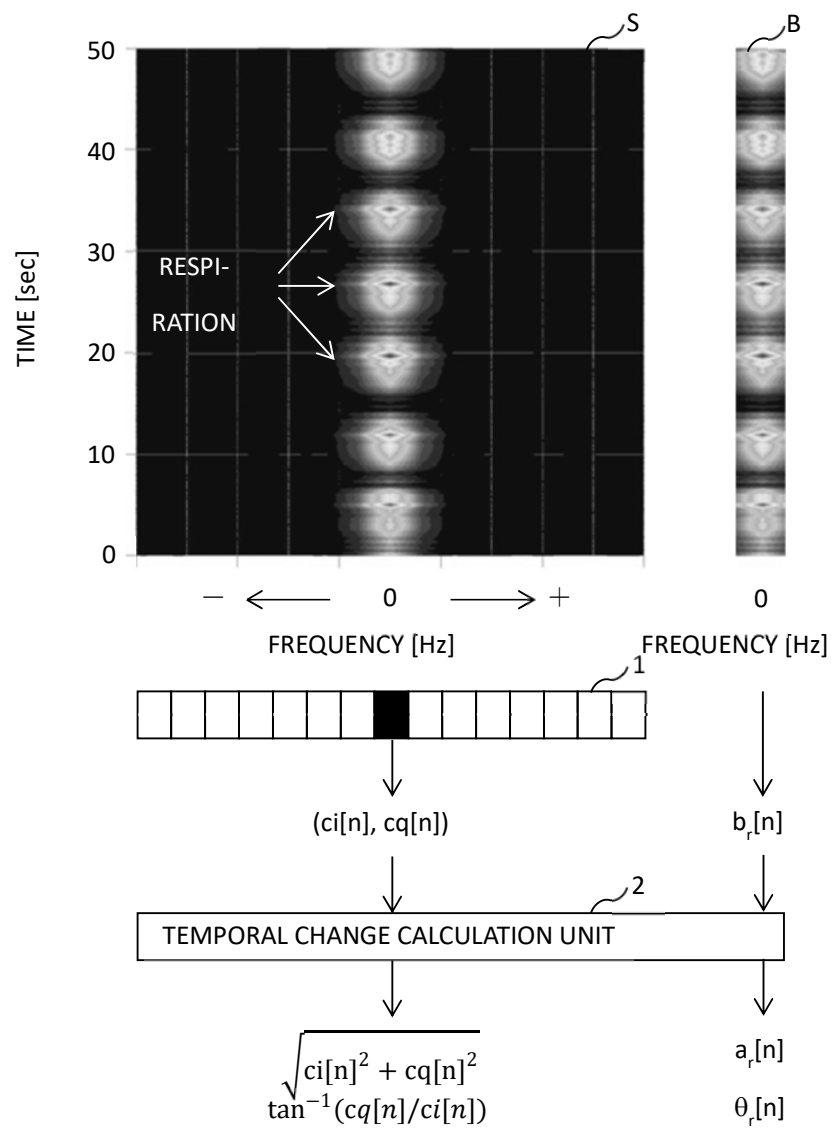


FIG. 4

[5]

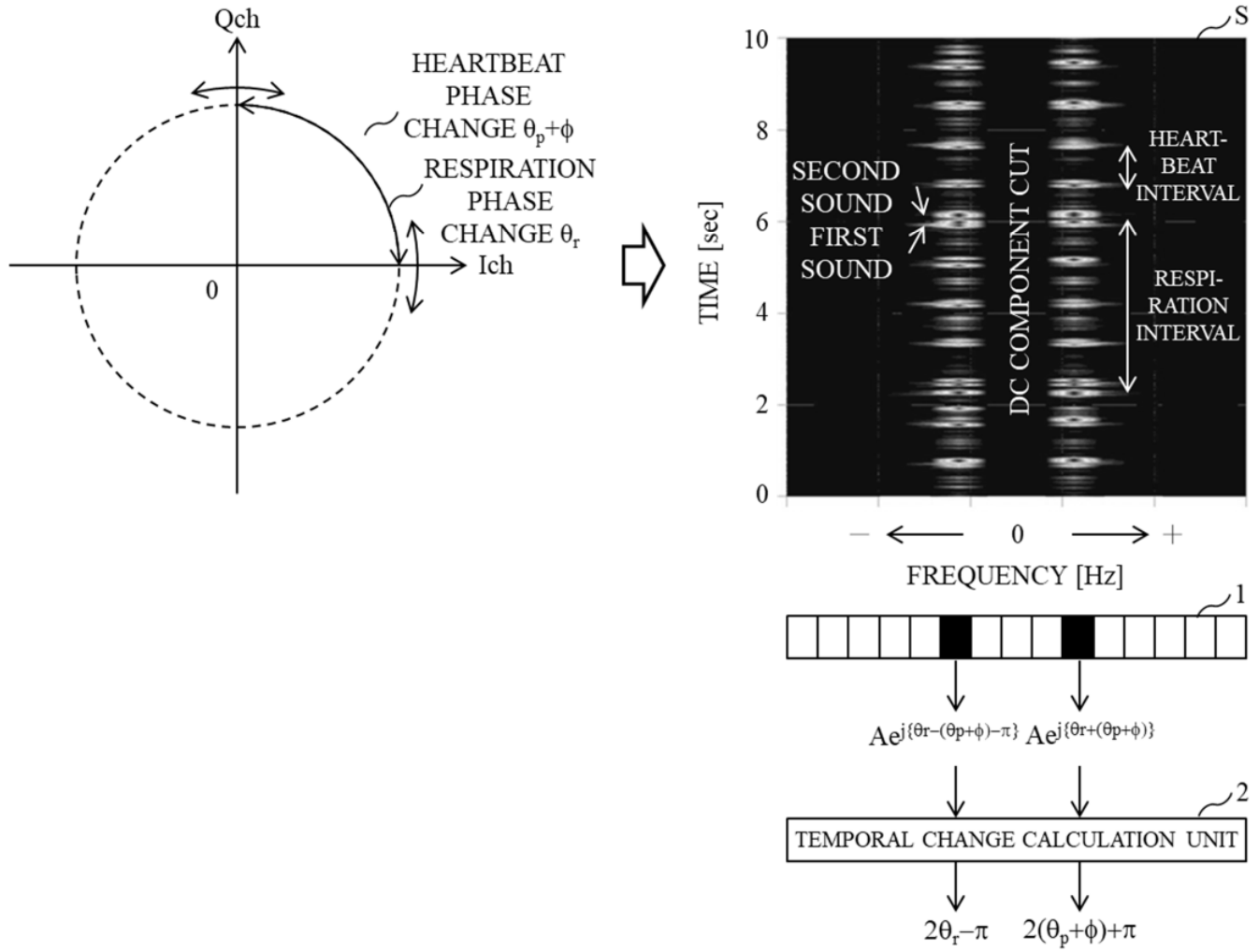


FIG. 5

[6]

HEARTBEAT OUTPUT (SIMULTANEOUS RESPIRATION OUTPUT IS POSSIBLE)	MODULATED INFORMATION	AMPLITUDE TEMPORAL CHANGE: $\sqrt{li[n]^2 + lq[n]^2}, \sqrt{ri[n]^2 + rq[n]^2}, a_p[n]$
		PHASE TEMPORAL CHANGE: $\tan^{-1}(lq[n]/li[n]), \tan^{-1}(rq[n]/ri[n]), \theta_p[n], 2(\theta_p[n]+\phi)+\pi$
	MODULATION METHOD	AMPLITUDE MODULATION OR FREQUENCY MODULATION (DIFFERENT MODULATION IS POSSIBLE FOR HEARTBEAT OUTPUT AND RESPIRATION OUTPUT)
RESPIRATION OUTPUT (SIMULTANEOUS HEARTBEAT OUTPUT IS POSSIBLE)	MODULATED INFORMATION	AMPLITUDE TEMPORAL CHANGE: $\sqrt{ci[n]^2 + cq[n]^2}, a_r[n]$
		PHASE TEMPORAL CHANGE: $\tan^{-1}(cq[n]/ci[n]), \theta_r[n], 2\theta_r[n]-\pi$
	MODULATION METHOD	AMPLITUDE MODULATION OR FREQUENCY MODULATION (DIFFERENT MODULATION IS POSSIBLE FOR RESPIRATION OUTPUT AND HEARTBEAT OUTPUT)

FIG. 6

[7]

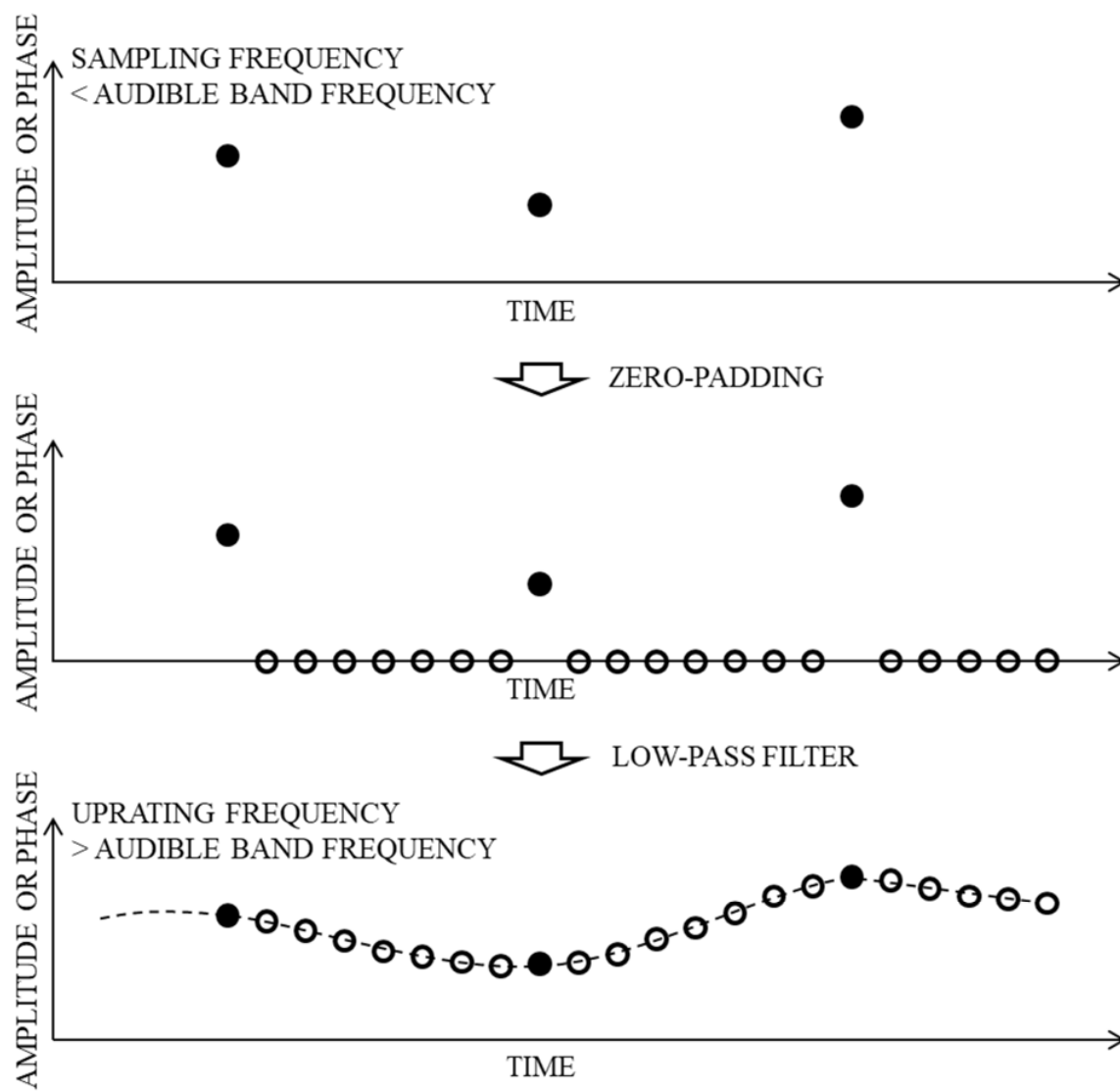


FIG. 7

[8]

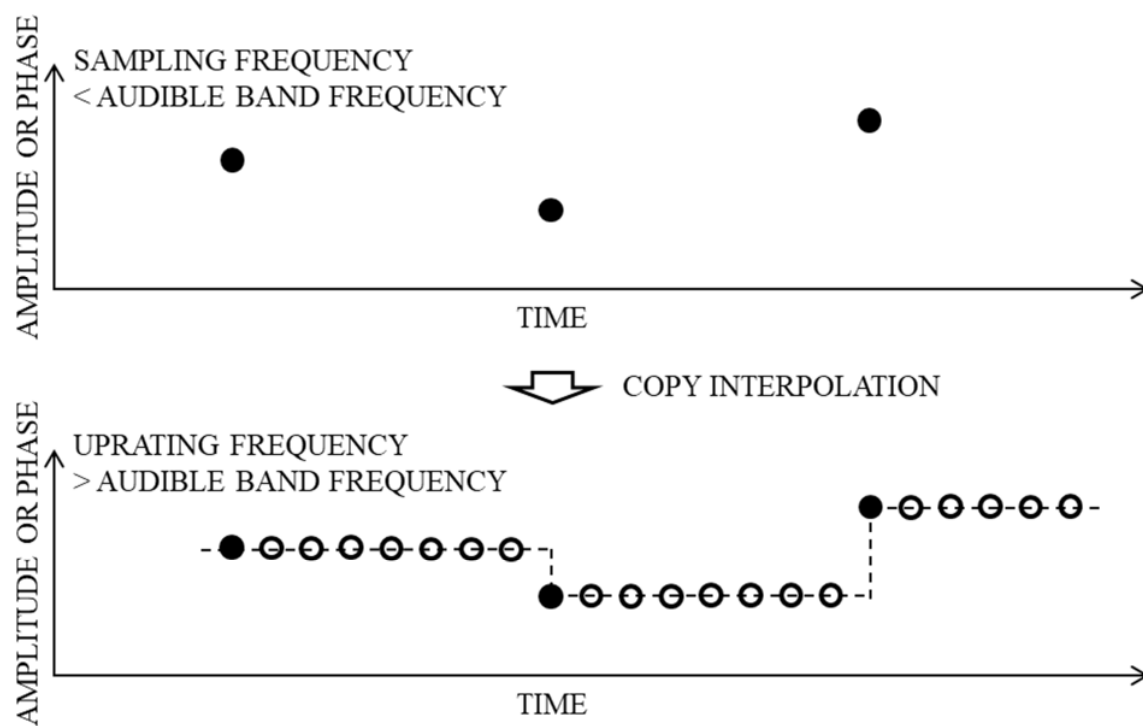


FIG. 8

[9]

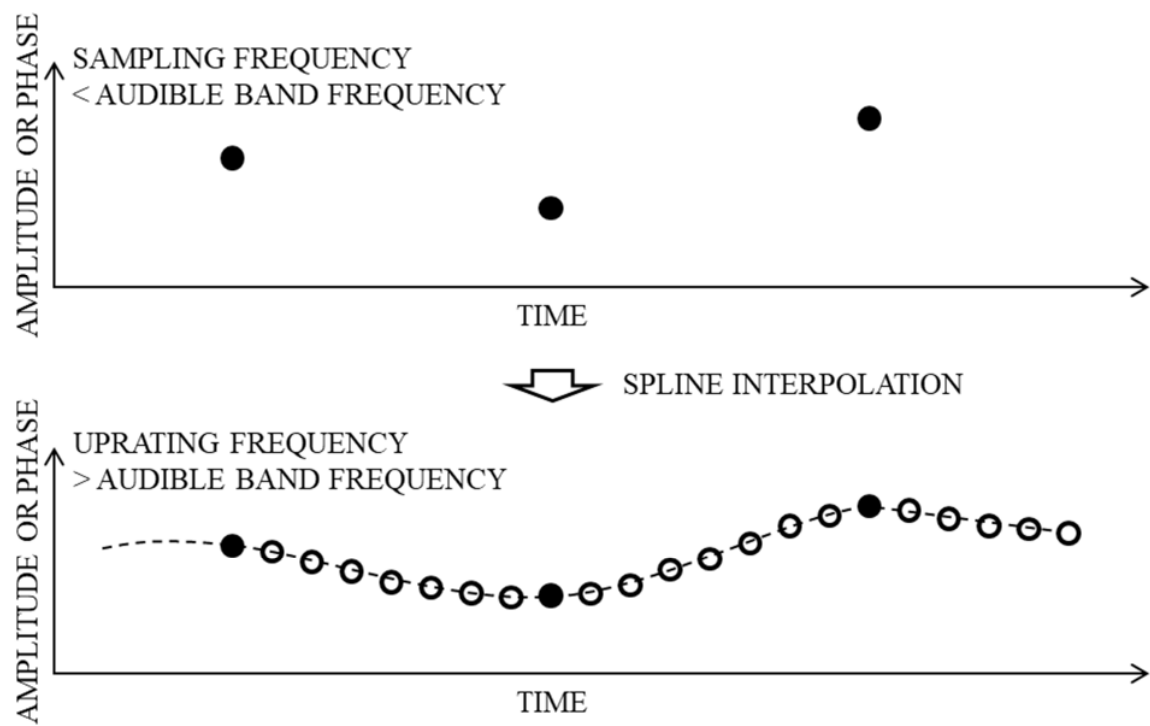


FIG. 9

[10]

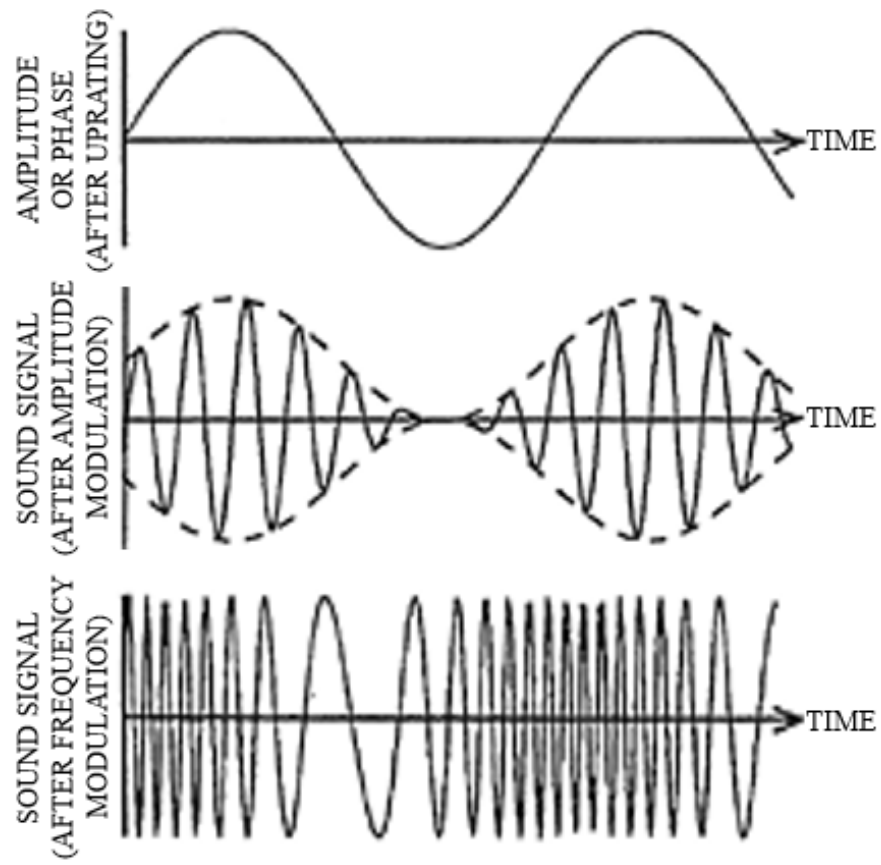


FIG. 10

[11]

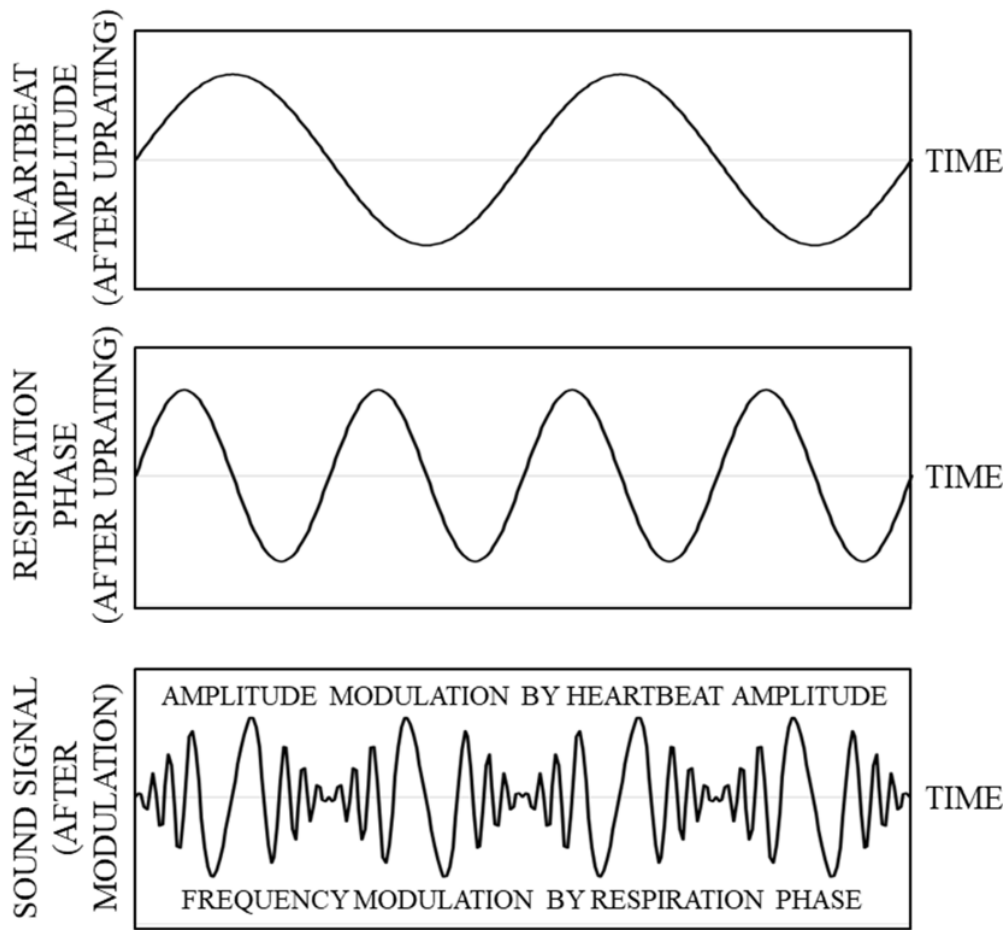


FIG. 11