

FIG. 1

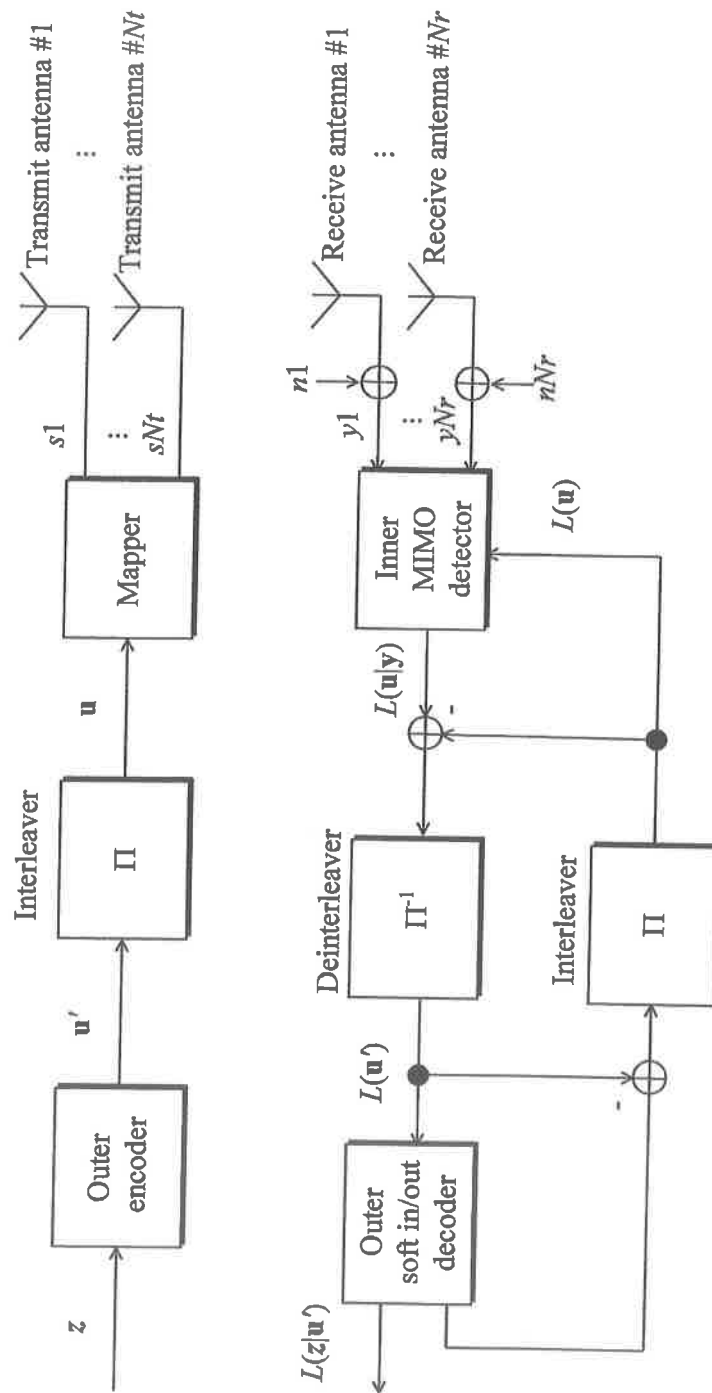


FIG. 2

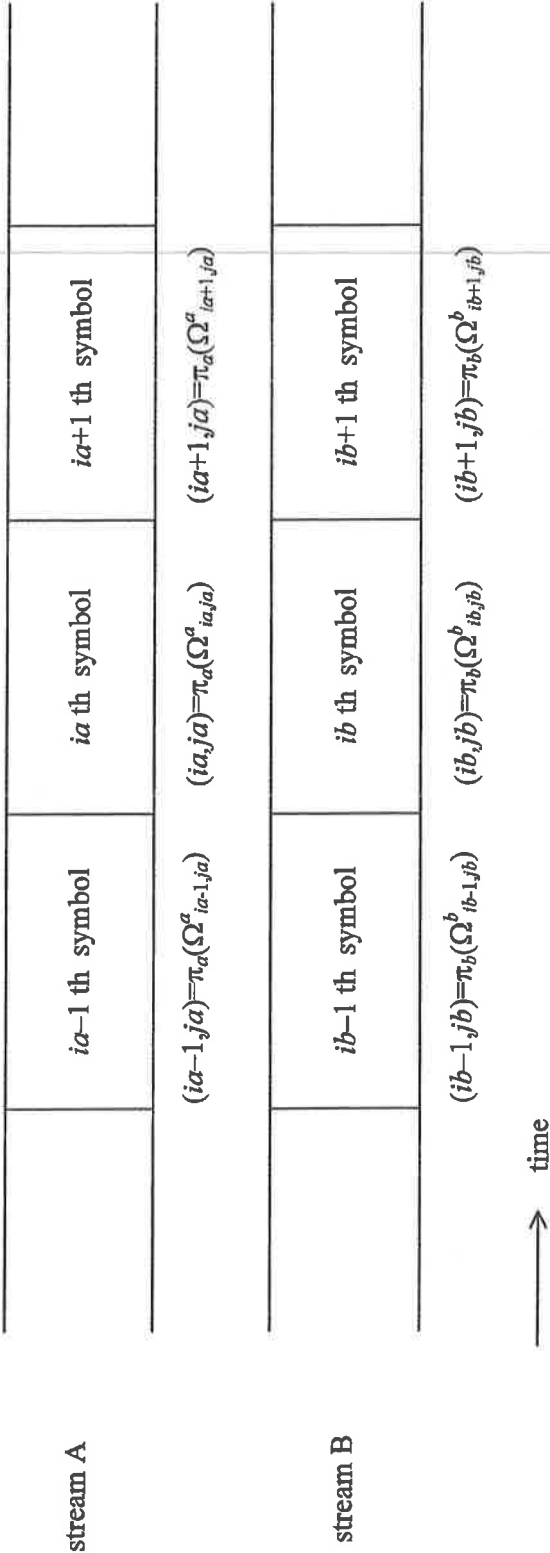


FIG. 3

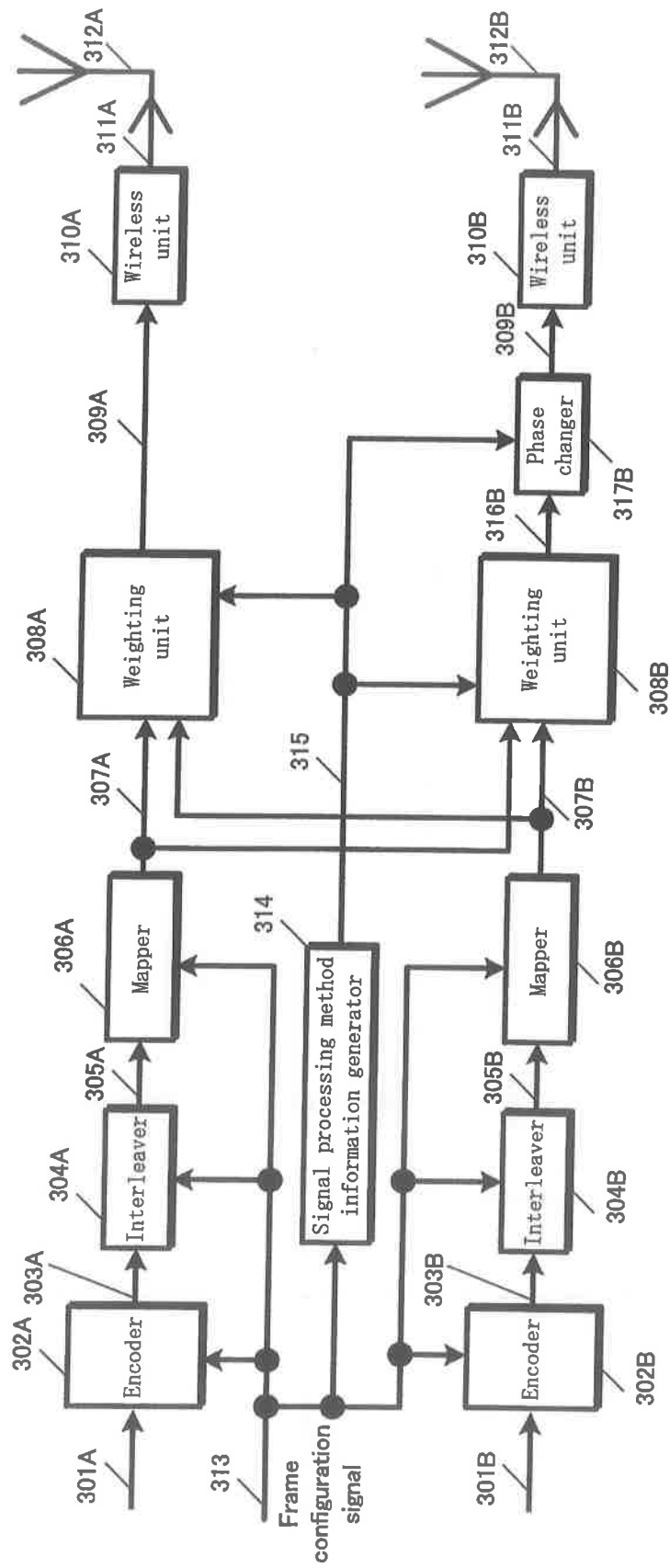


FIG. 5

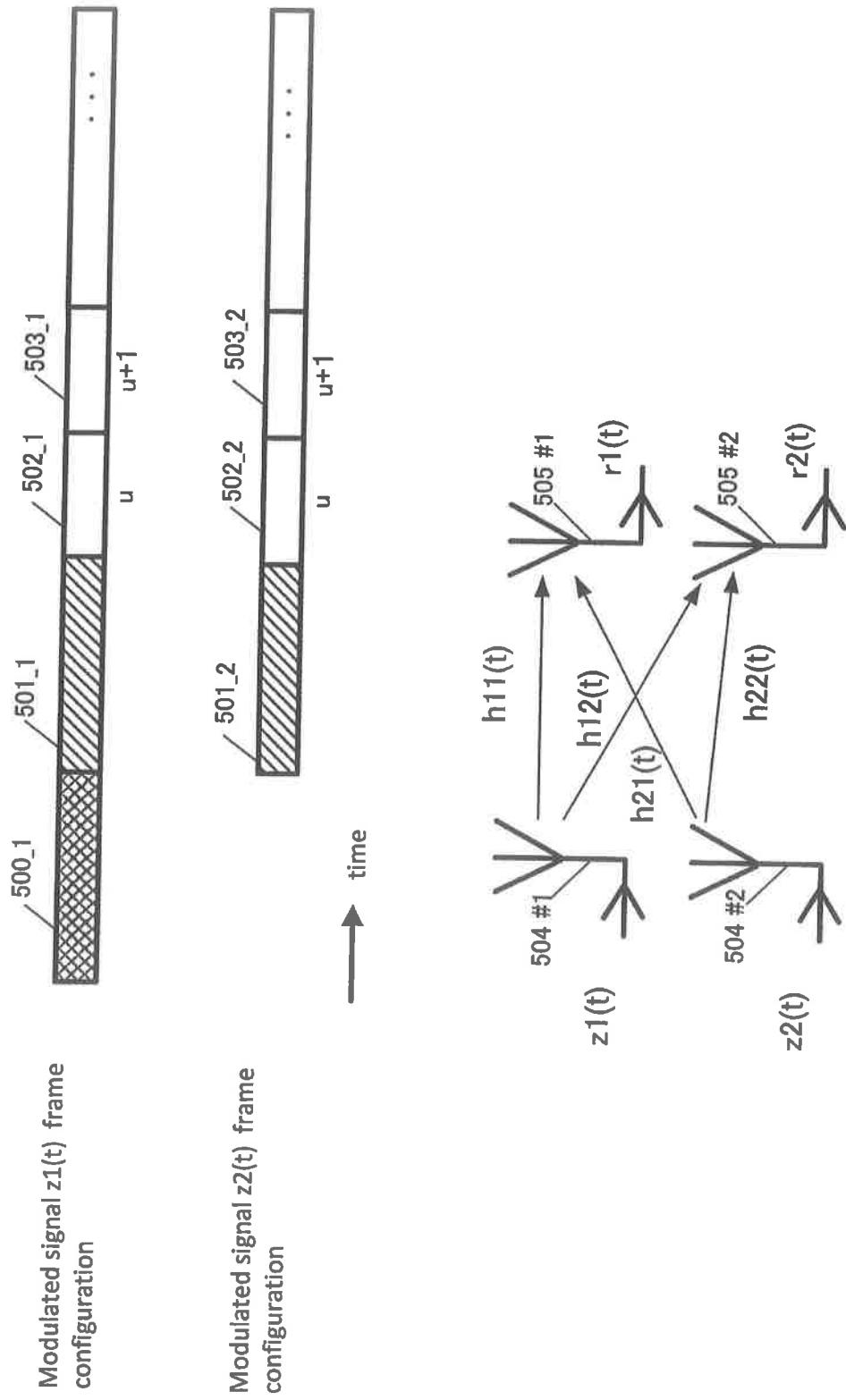
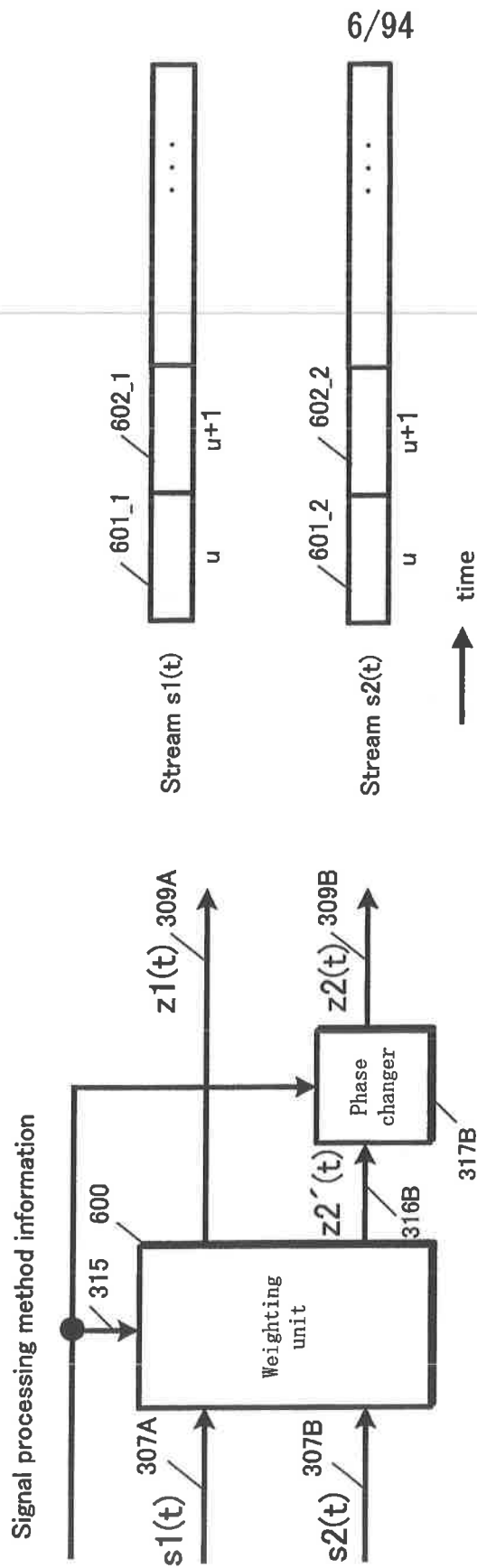


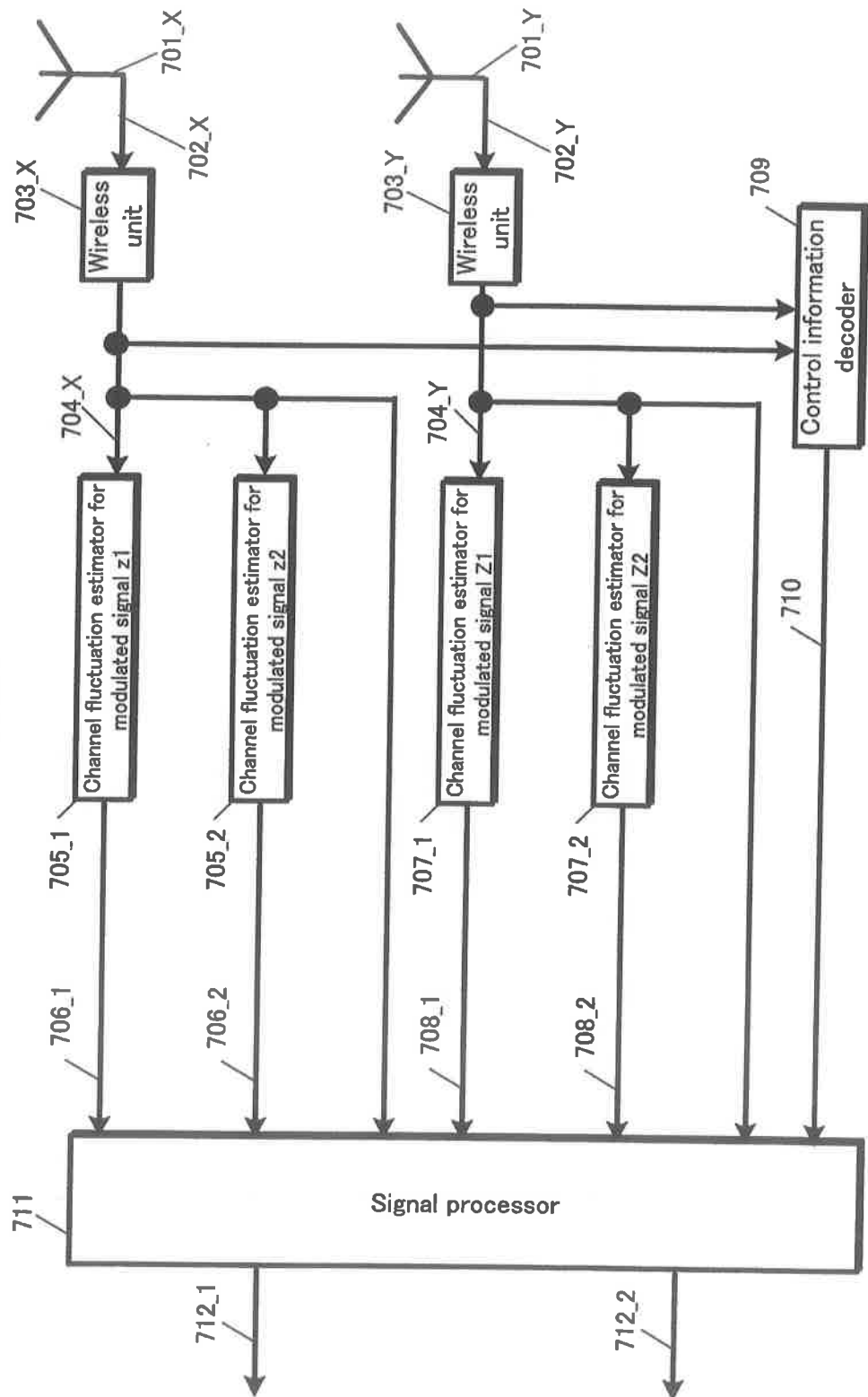
FIG. 6



Sample variations of phase changing formula $y(t)$ used by phase changer

timestamp u	timestamp $u+1$	timestamp $u+2$	timestamp $u+3$	timestamp $u+k$
$y(u) = e^{j0}$	$y(u+1) = e^{j\frac{\pi}{2}}$	$y(u+2) = e^{j\pi}$	$y(u+3) = e^{j\frac{3\pi}{2}}$	$y(u+k) = e^{j\frac{k\pi}{2}}$

FIG. 7



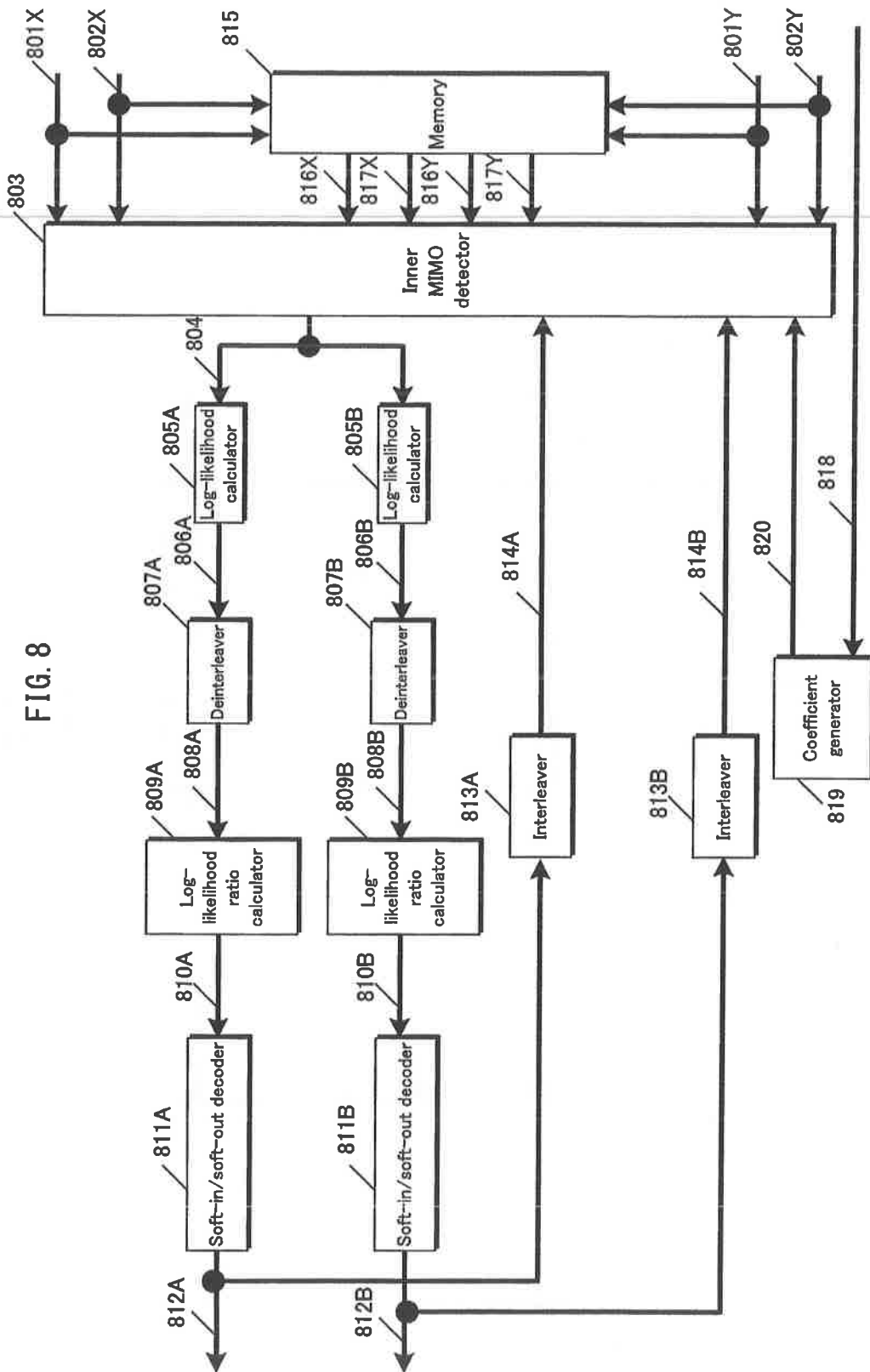


FIG. 9

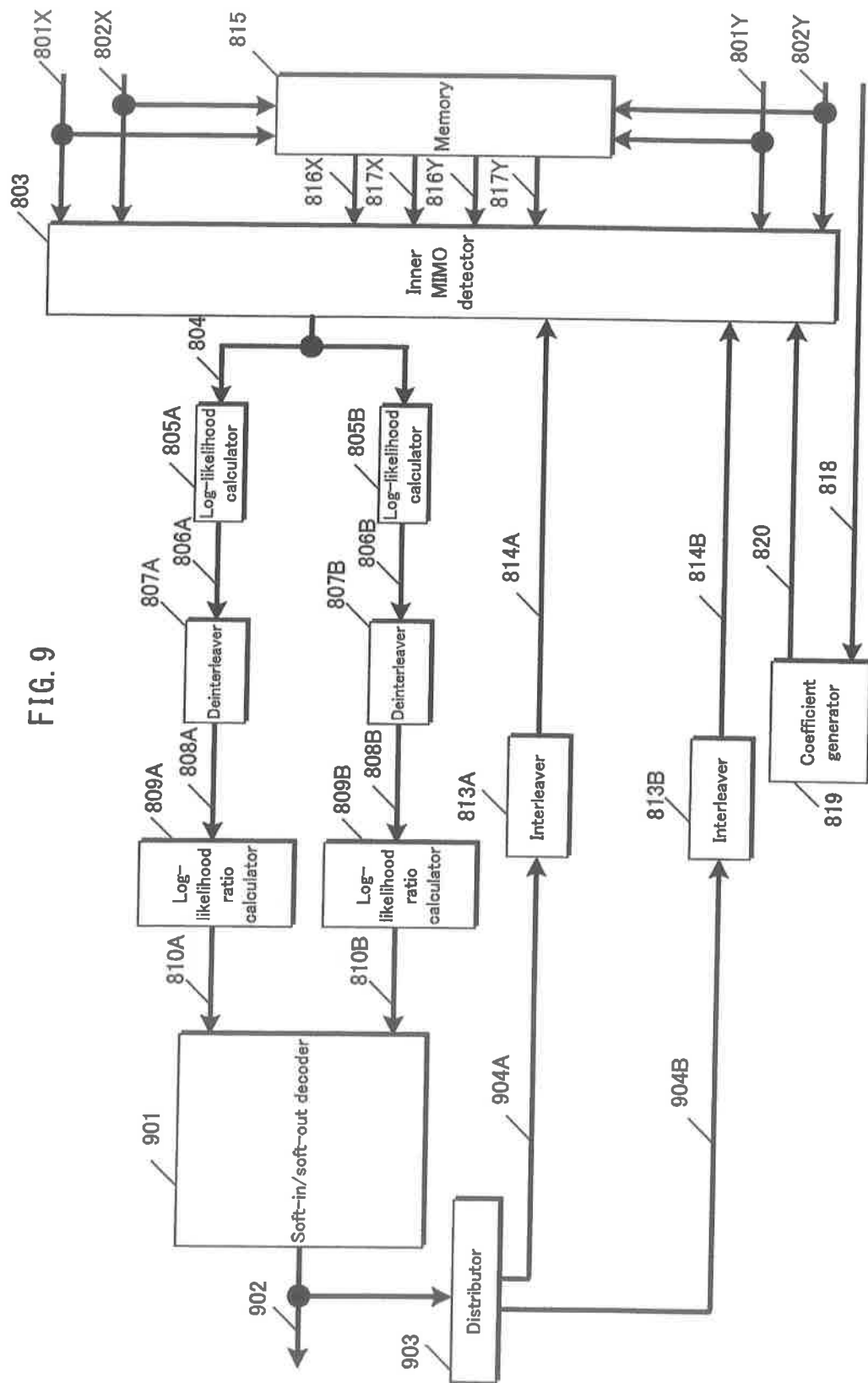
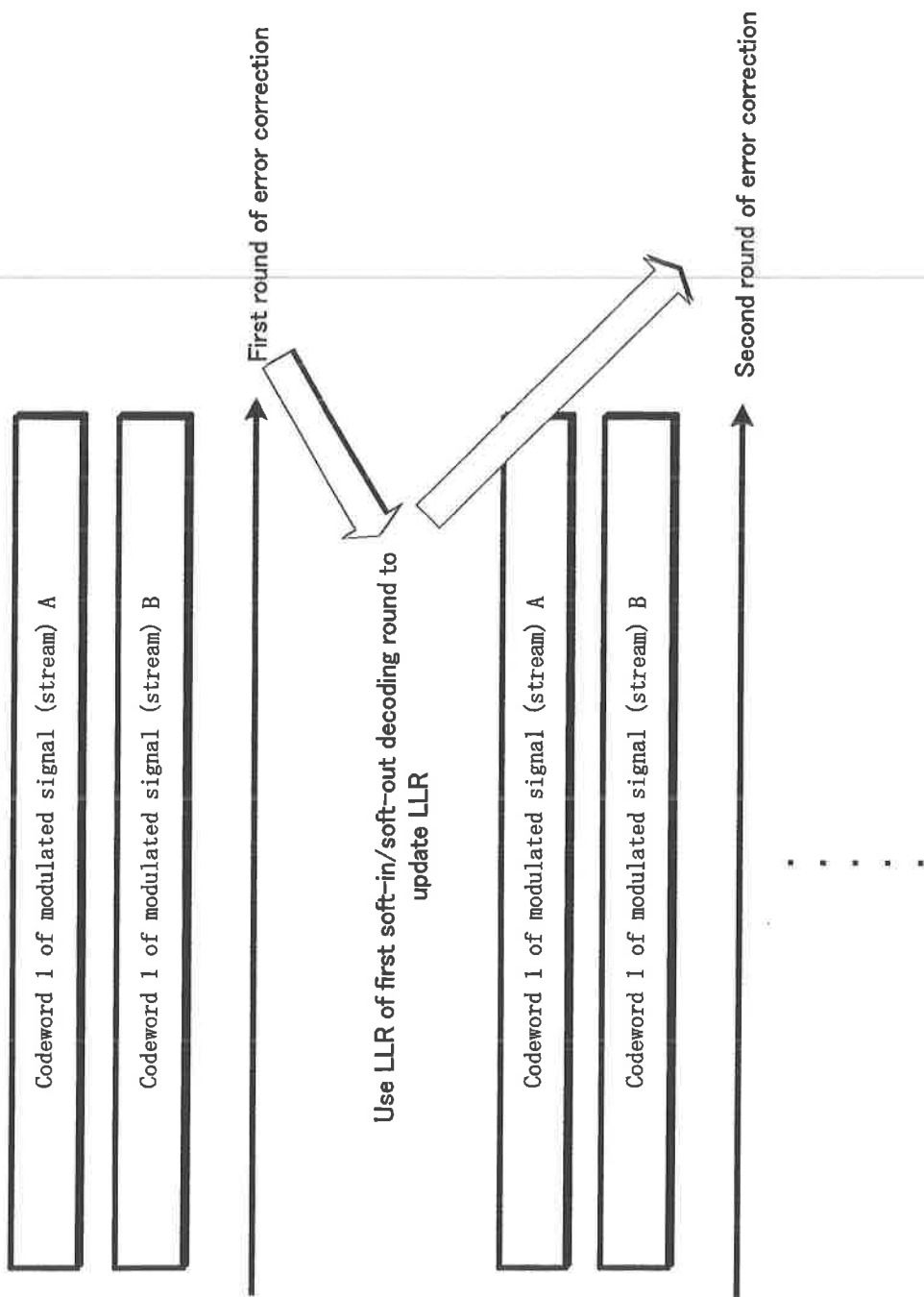


FIG. 10



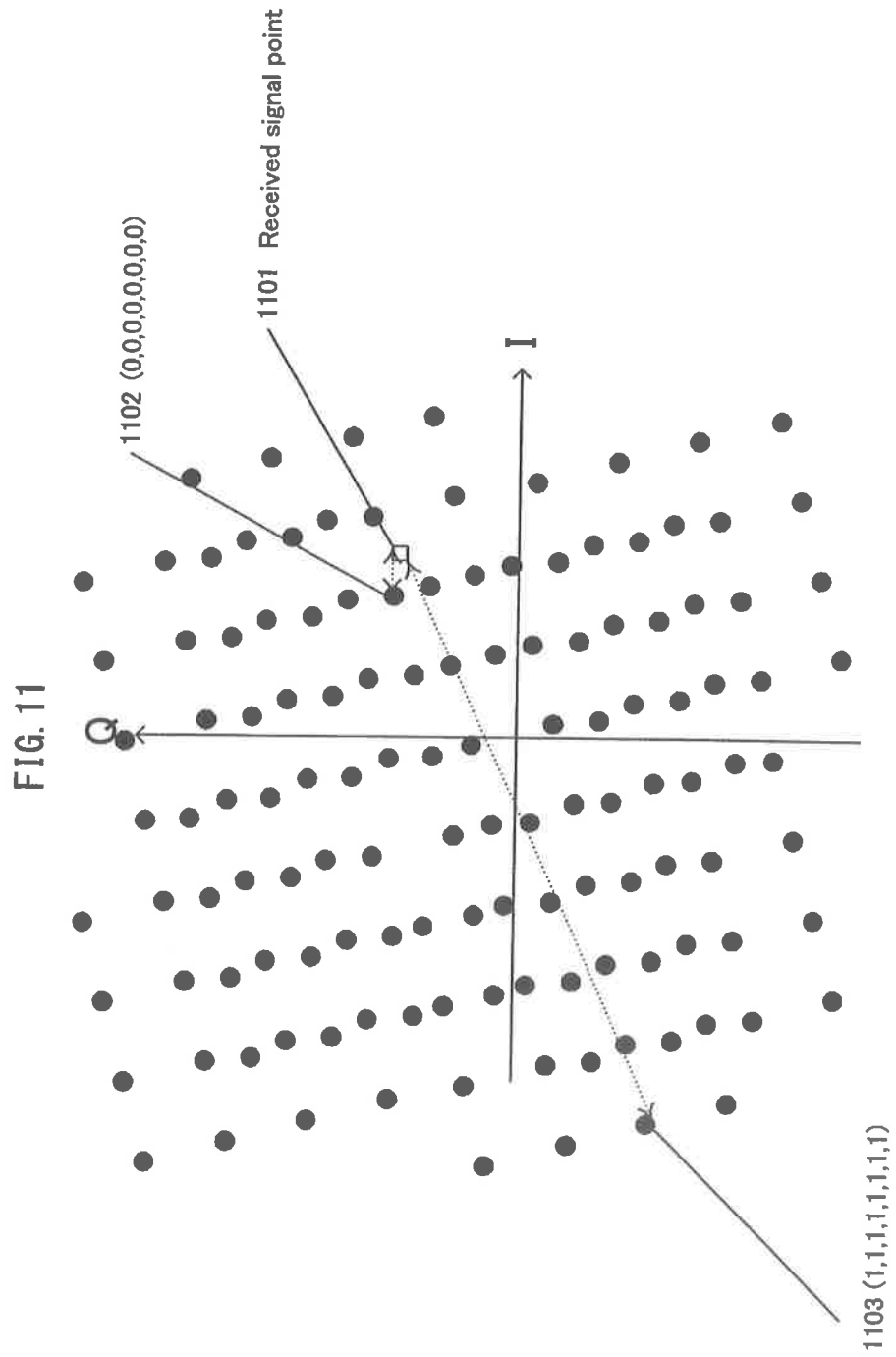


FIG. 12

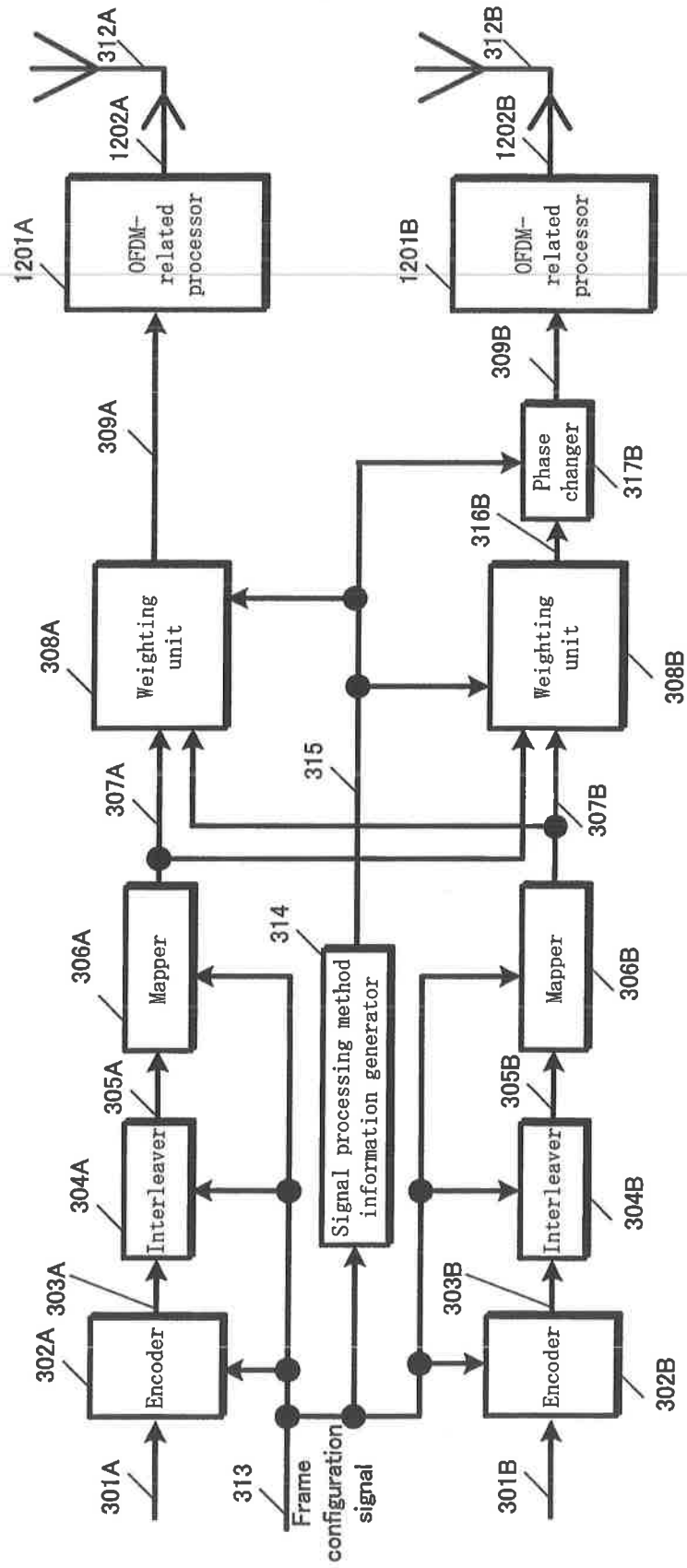


FIG. 13

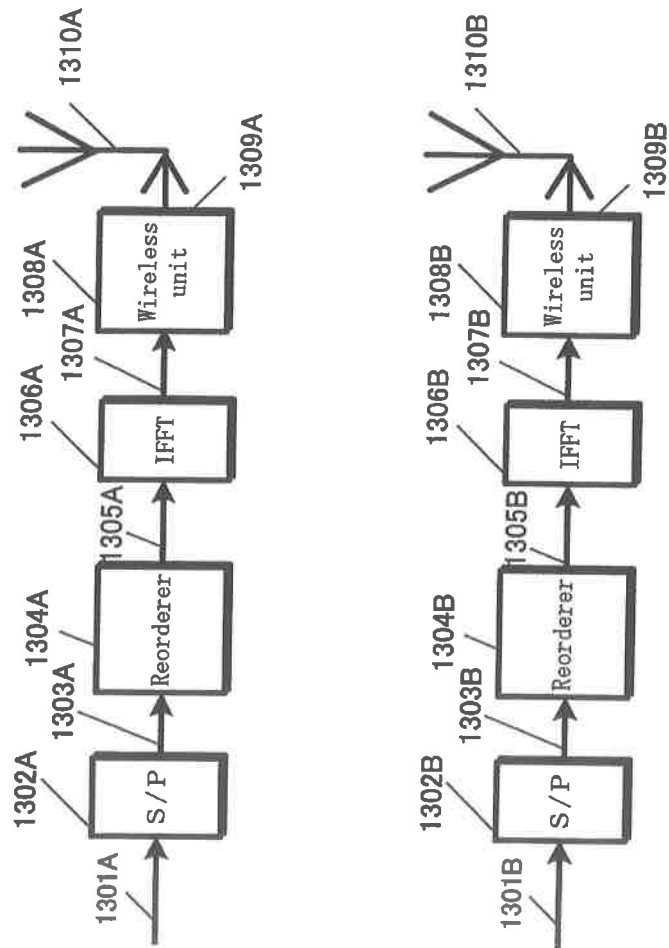


FIG. 14A

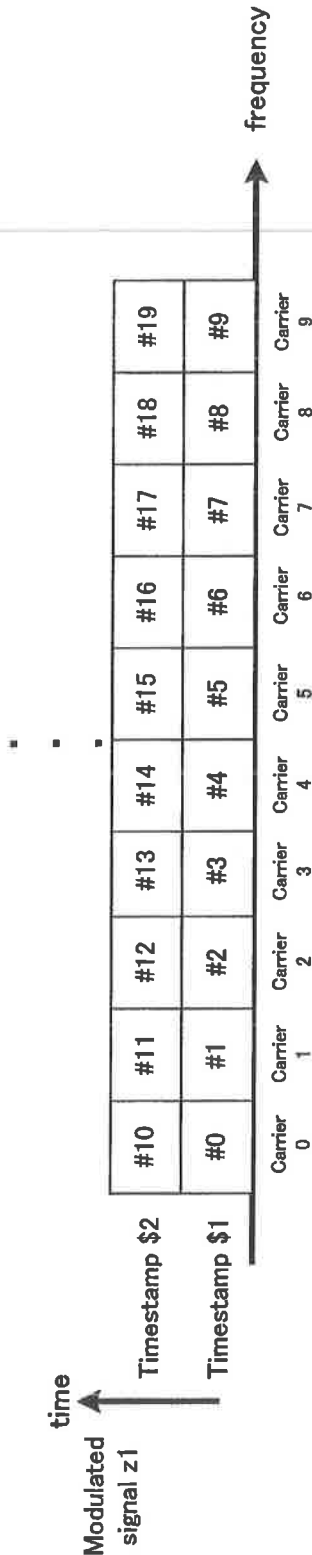


FIG. 14B

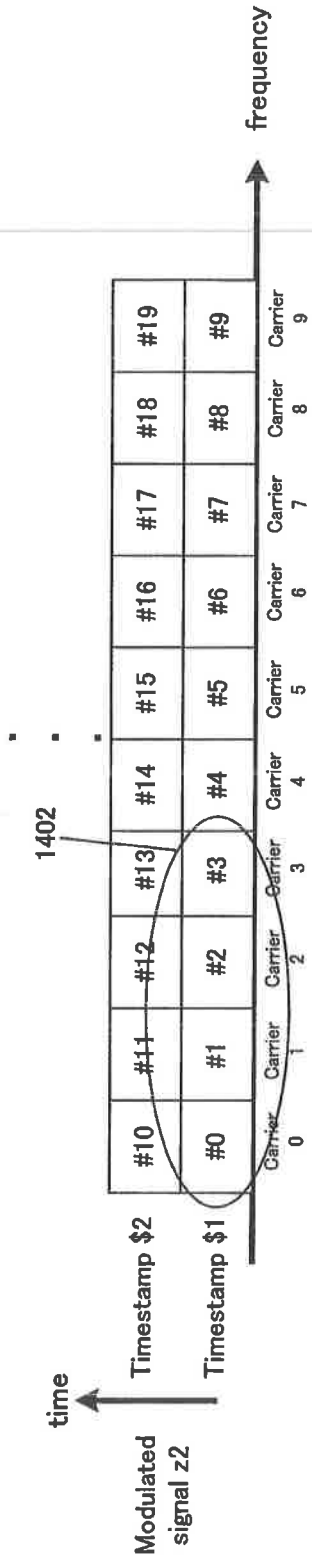


FIG. 15A

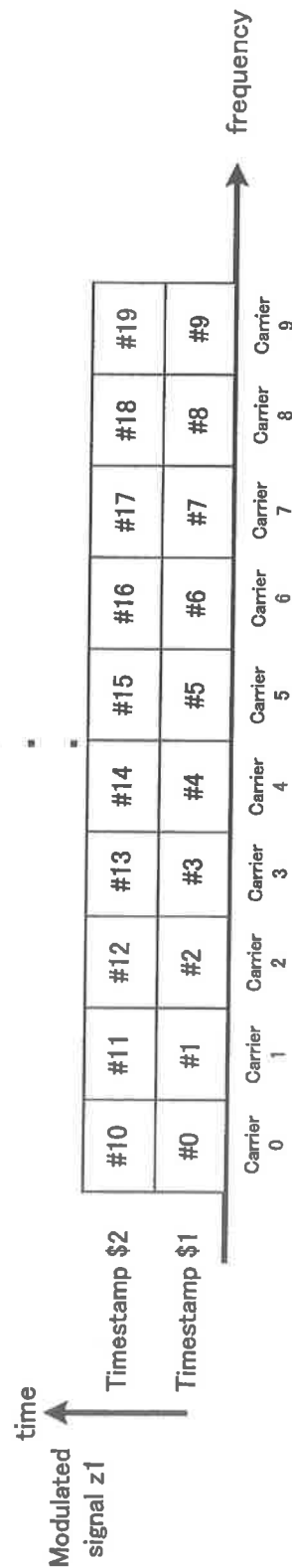


FIG. 15B

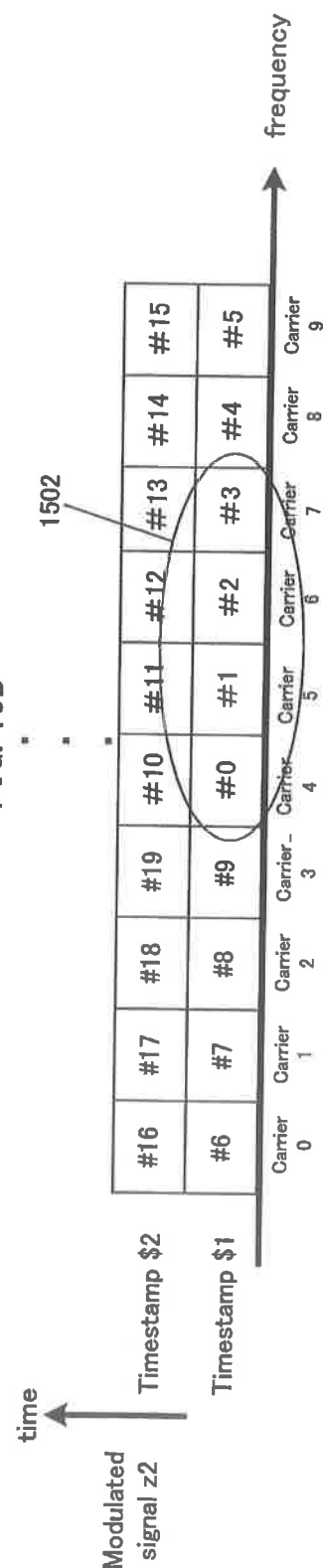


FIG. 16A

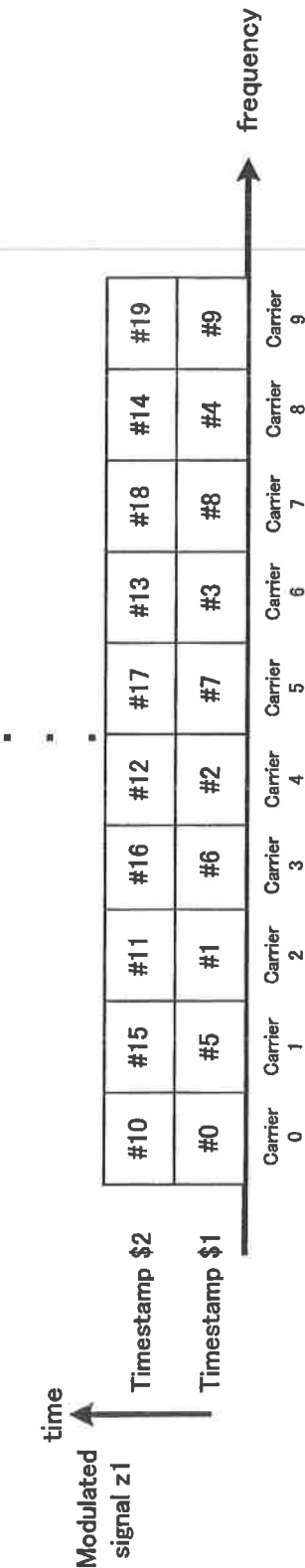


FIG. 16B

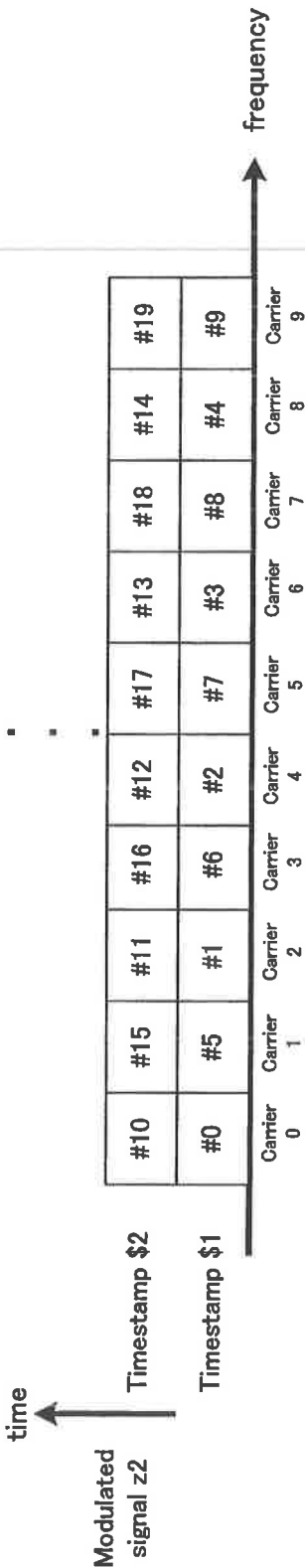


FIG. 17A

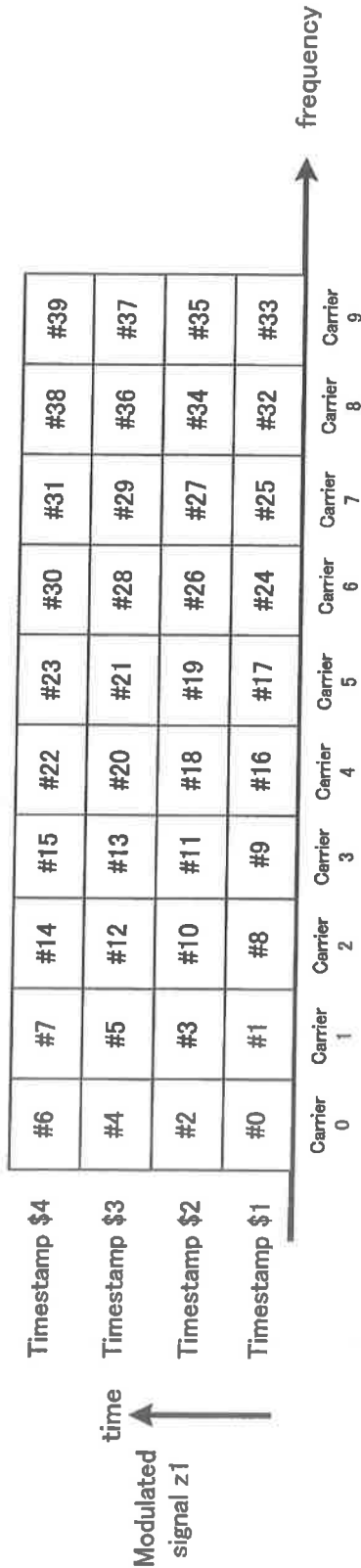


FIG. 17B

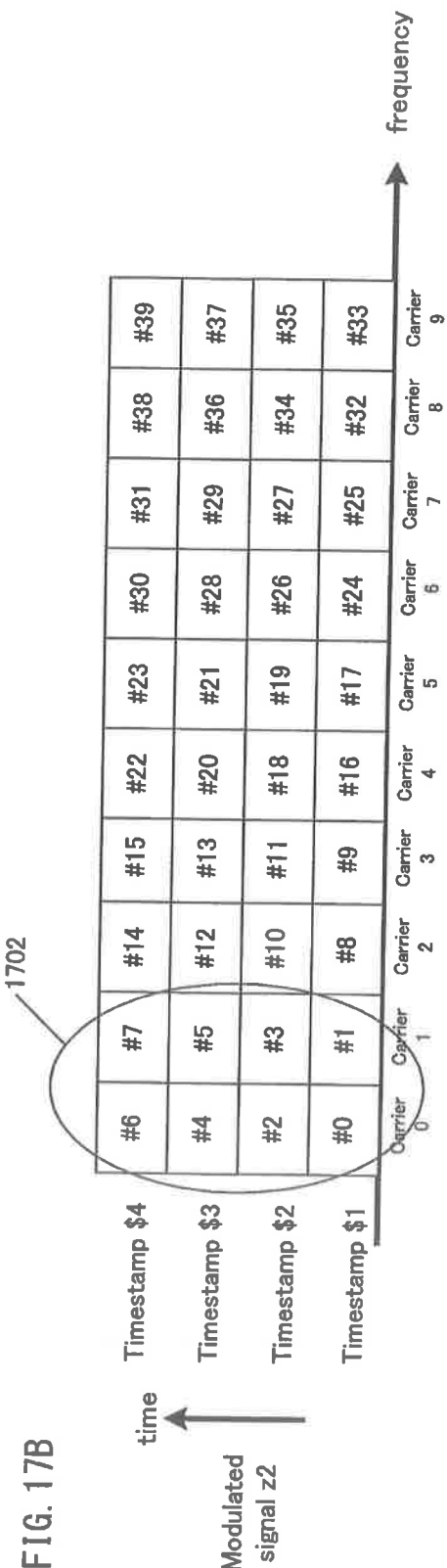


FIG. 18A

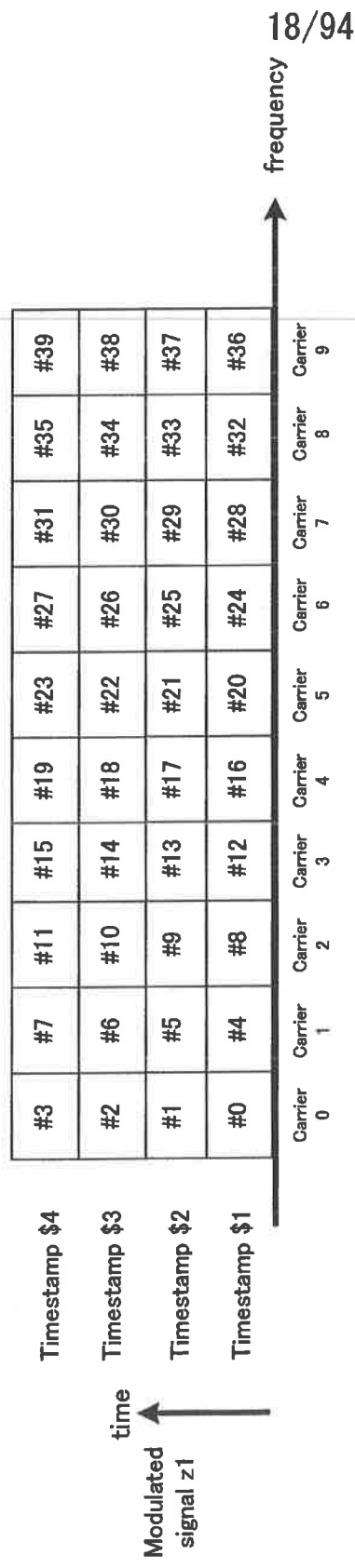


FIG. 18B

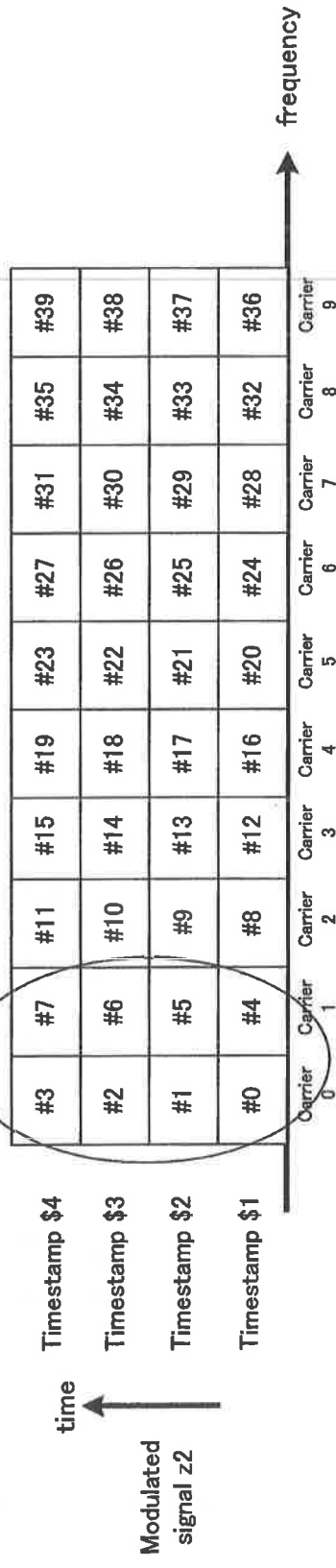


FIG. 19B

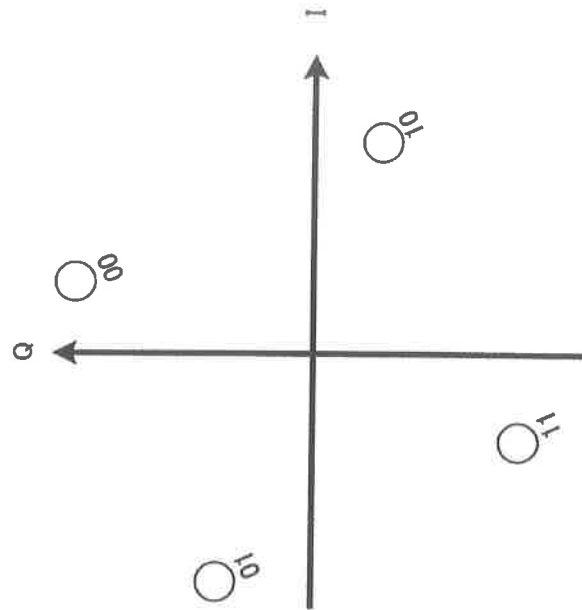


FIG. 19A

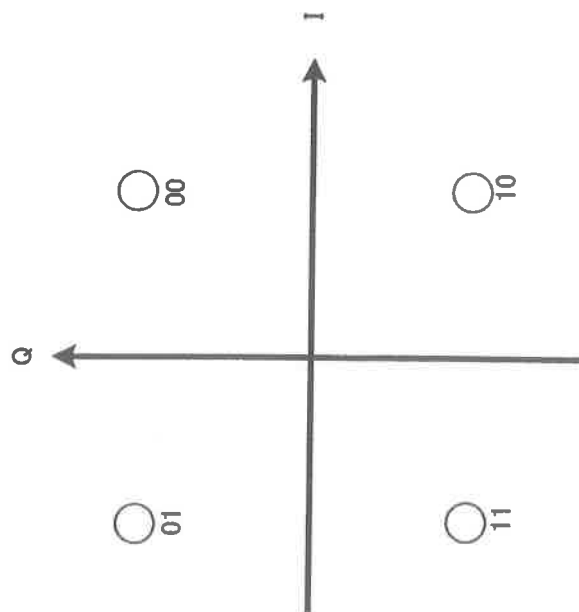


FIG. 20B

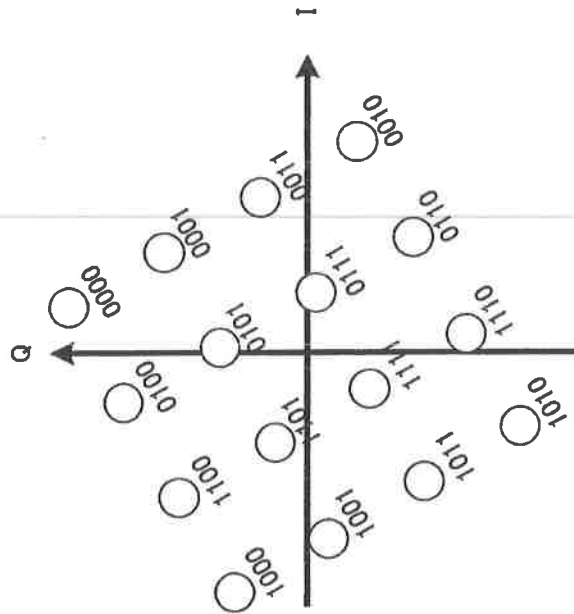


FIG. 20A

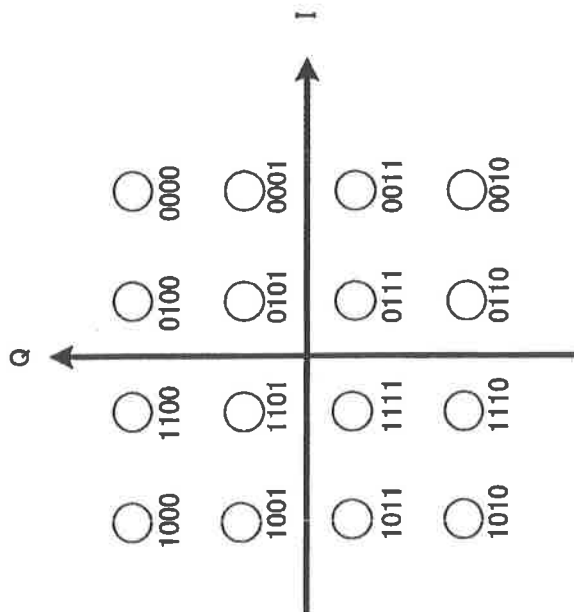


FIG. 21

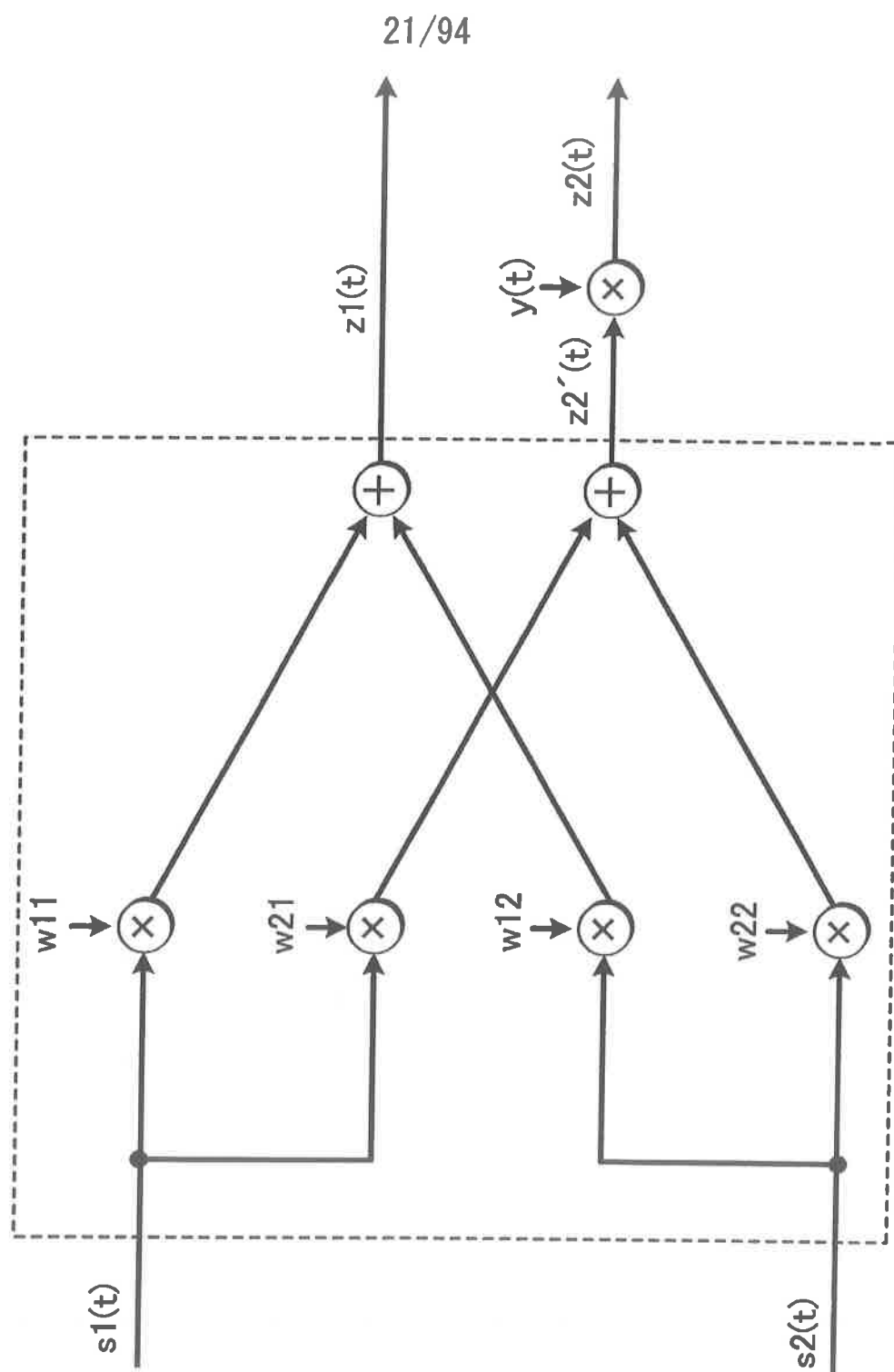


FIG. 22

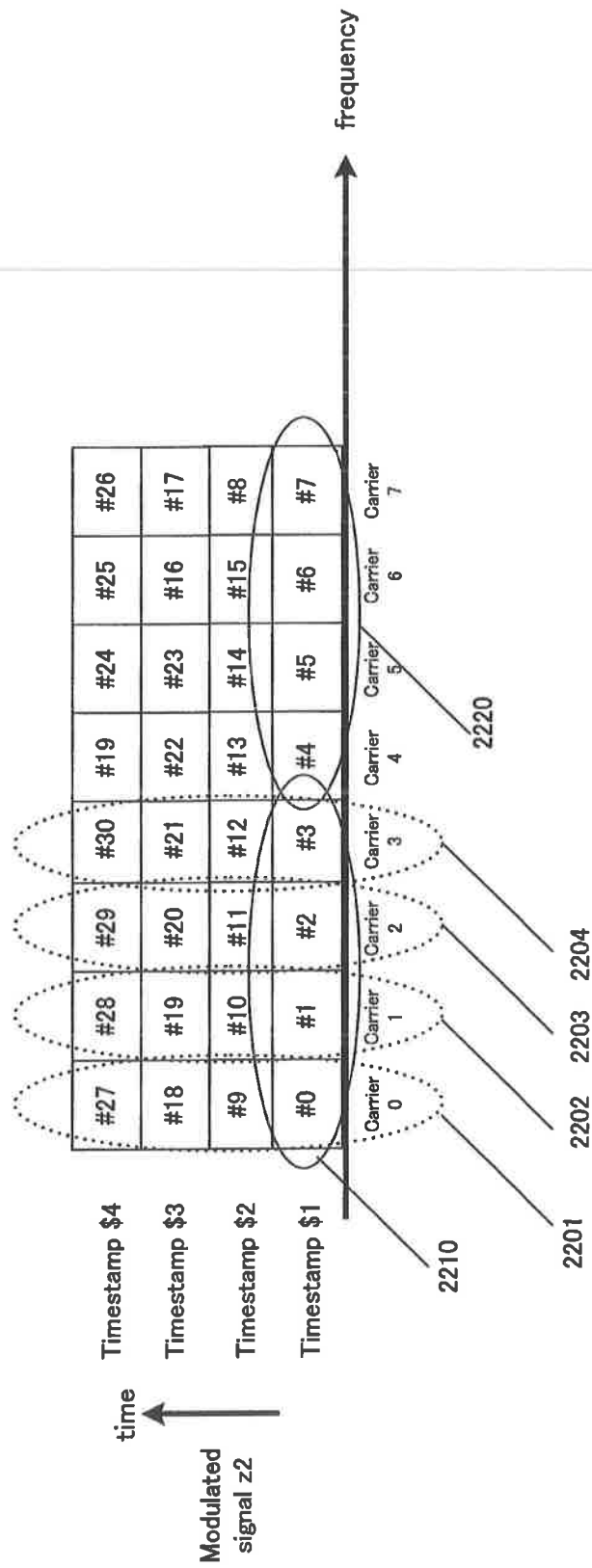


FIG. 23

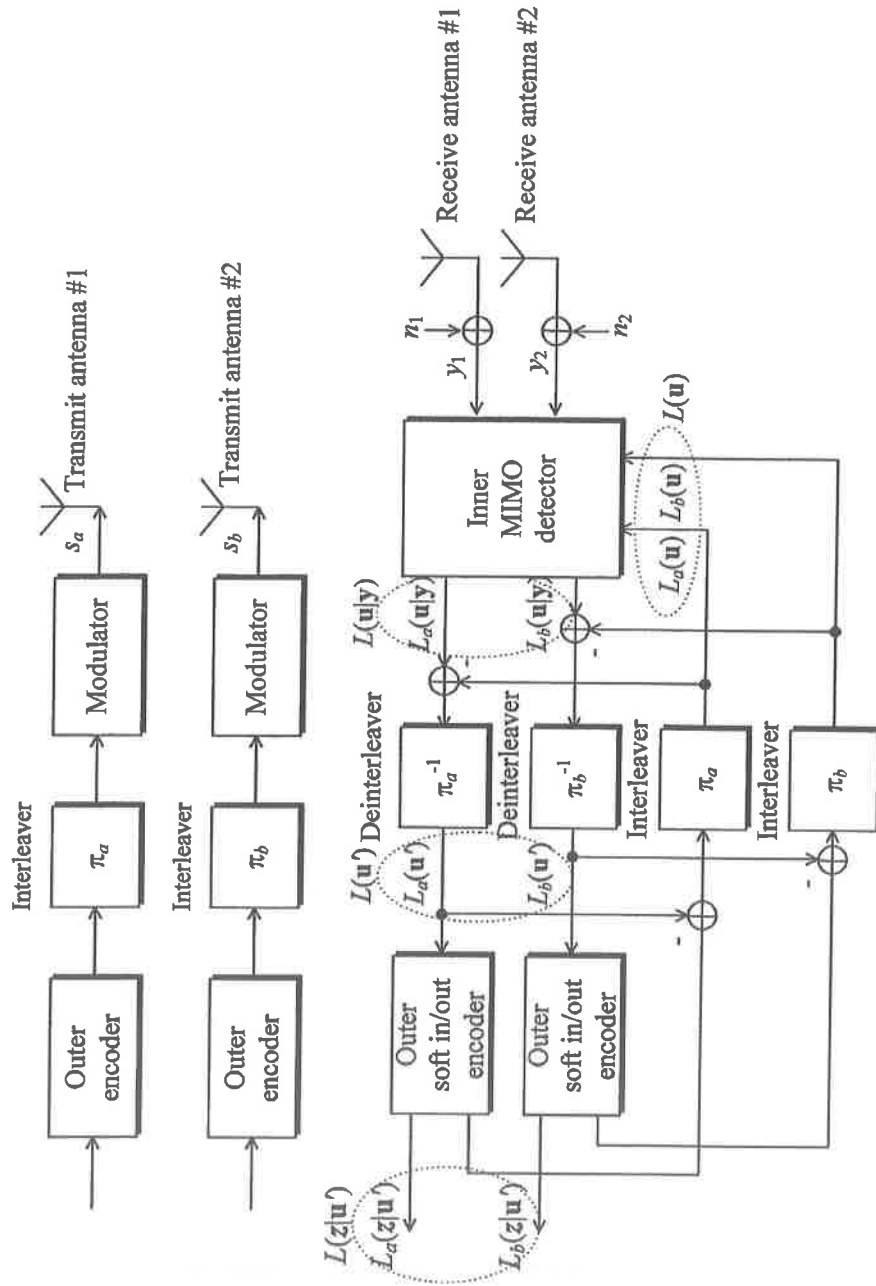


FIG. 24B

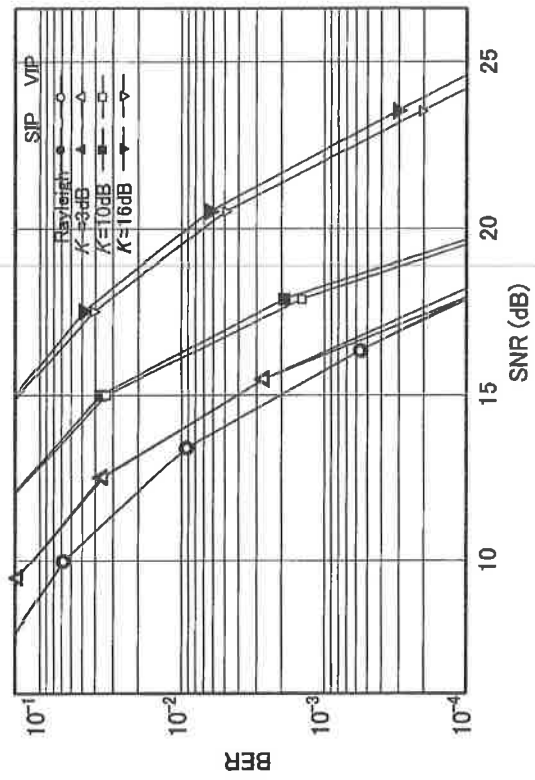


FIG. 24A

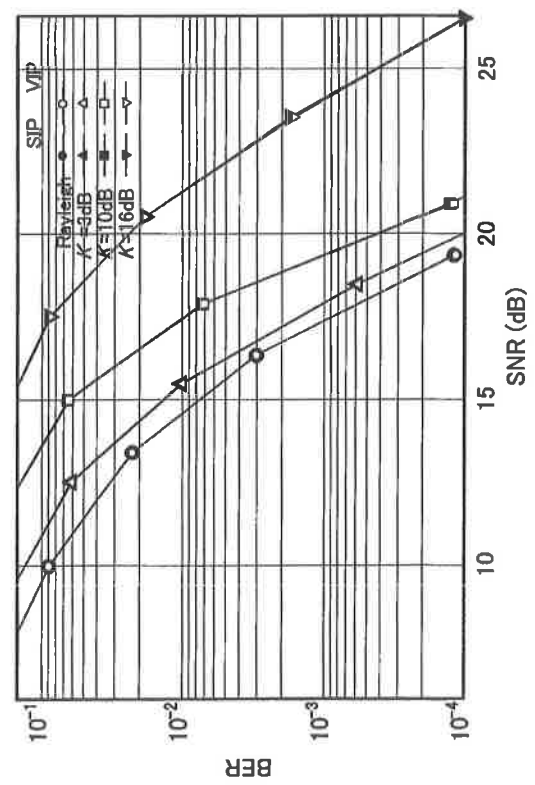
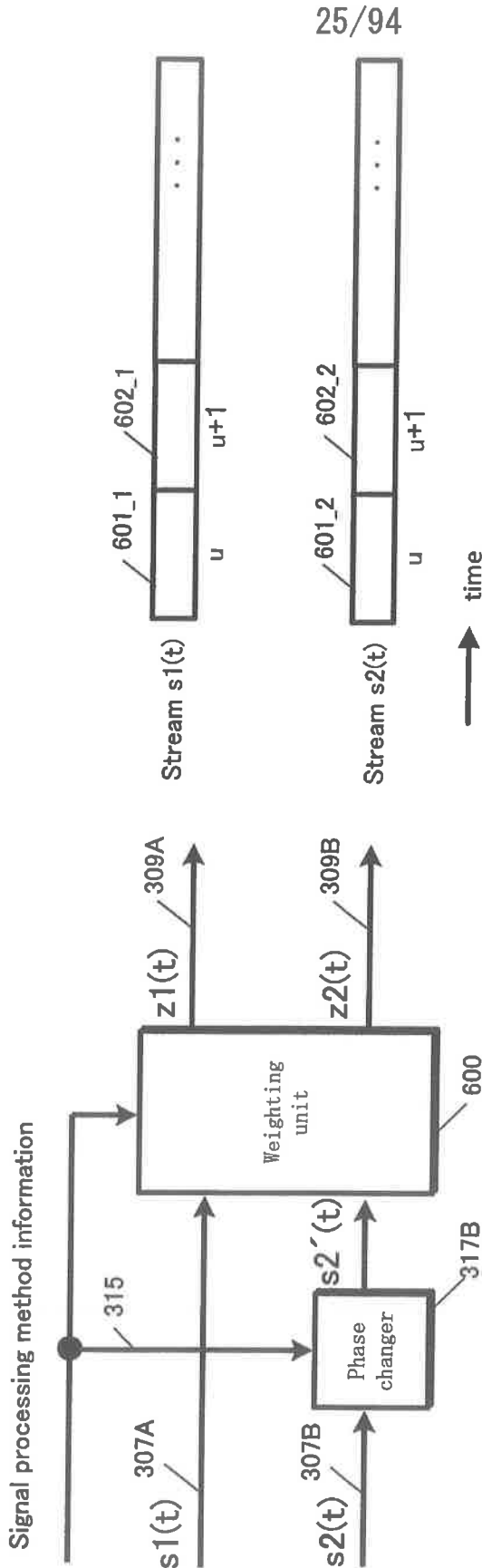


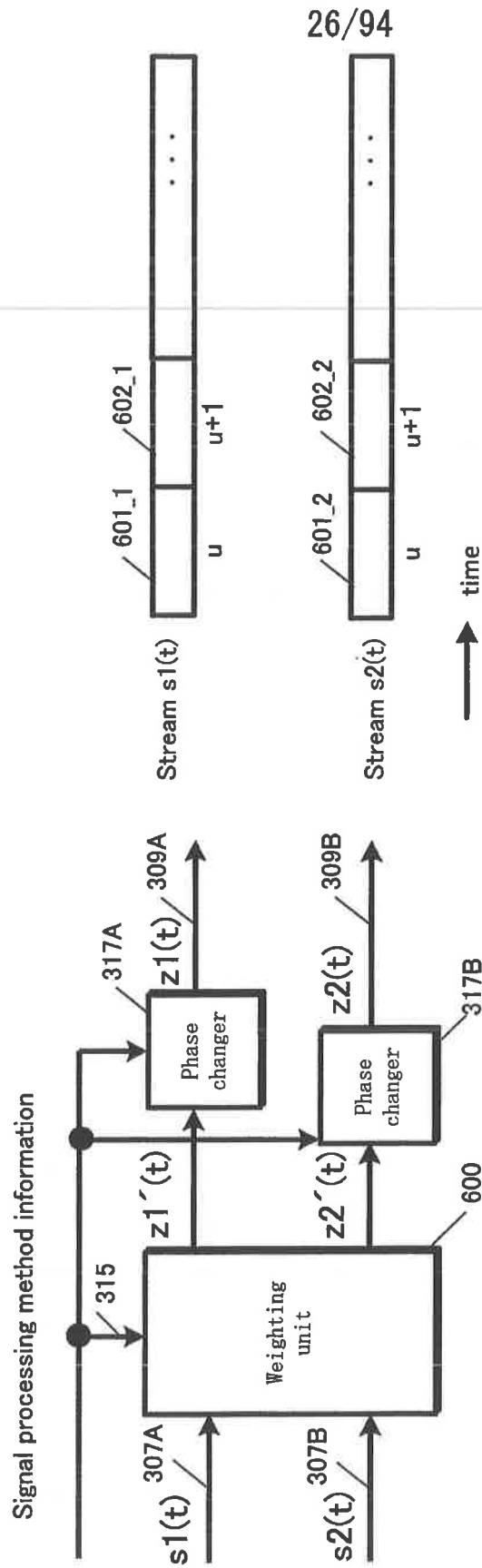
FIG. 25



Sample variations of phase changing formula $y(t)$ used by phase changer

timestamp u	timestamp $u+1$	timestamp $u+2$	timestamp $u+3$	timestamp $u+k$
$y(u) = e^{j0}$	$y(u+1) = e^{j\frac{\pi}{2}}$	$y(u+2) = e^{j\pi}$	$y(u+3) = e^{j\frac{3\pi}{2}}$	$y(u+k) = e^{j\frac{k\pi}{2}}$

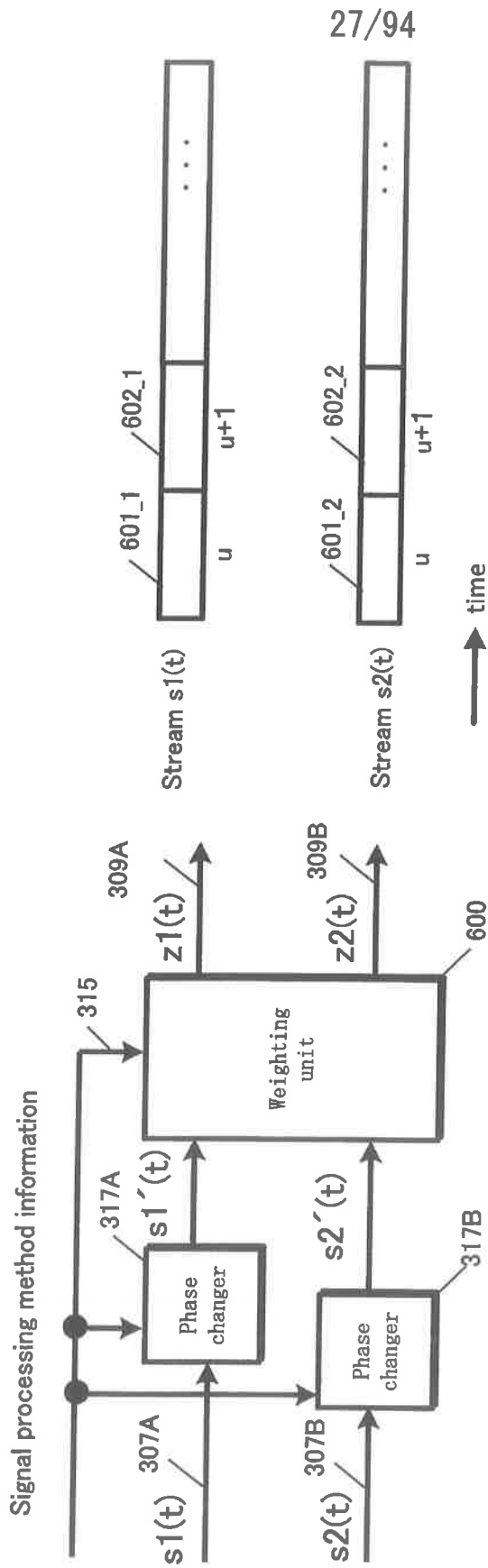
FIG. 26



Sample variations of phase changing formulae $y_1(t)$, $y_2(t)$ used by phase changers

timestamp u	timestamp $u+1$	timestamp $u+2$	timestamp $u+3$	timestamp $u+k$
$y_1(u) = e^{j0}$	$y_1(u+1) = e^{j\frac{\pi}{4}}$	$y_1(u+2) = e^{j\frac{\pi}{2}}$	$y_1(u+3) = e^{j\frac{3\pi}{4}}$	$y_1(u+k) = e^{j\frac{k\pi}{4}}$
$y_2(u) = e^{-j\frac{\pi}{2}}$	$y_2(u+1) = e^{-j\frac{3\pi}{4}}$	$y_2(u+2) = e^{-j\pi}$	$y_2(u+3) = e^{-j\frac{5\pi}{4}}$	$y_2(u+k) = e^{-j\left(\frac{k\pi}{4} + \frac{\pi}{2}\right)}$

FIG. 27



27/94

Sample variations of phase changing formulae $y_1(t)$, $y_2(t)$ used by phase changers

timestamp u	timestamp $u+1$	timestamp $u+2$	timestamp $u+3$	timestamp $u+k$
$y_1(u) = e^{j\frac{\pi}{2}}$	$y_1(u+1) = e^{j\frac{\pi}{4}}$	$y_1(u+2) = e^{j\frac{\pi}{2}}$	$y_1(u+3) = e^{j\frac{3\pi}{4}}$	$y_1(u+k) = e^{j\frac{k\pi}{4}}$
$y_2(u) = e^{-j\frac{\pi}{2}}$	$y_2(u+1) = e^{-j\frac{3\pi}{4}}$	$y_2(u+2) = e^{-j\pi}$	$y_2(u+3) = e^{-j\frac{5\pi}{4}}$	$y_2(u+k) = e^{-j\left(\frac{k\pi}{4} + \frac{\pi}{2}\right)}$

FIG. 28

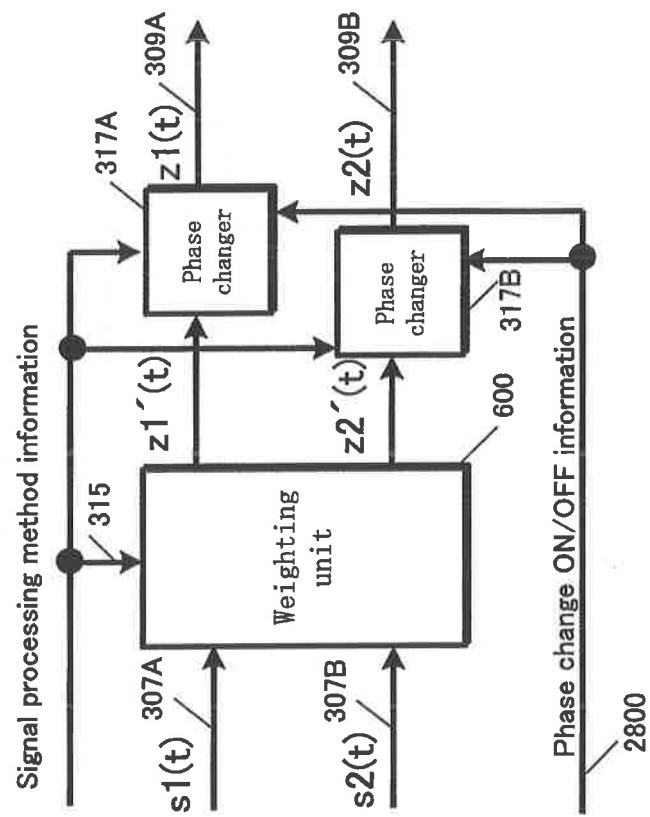


FIG. 29

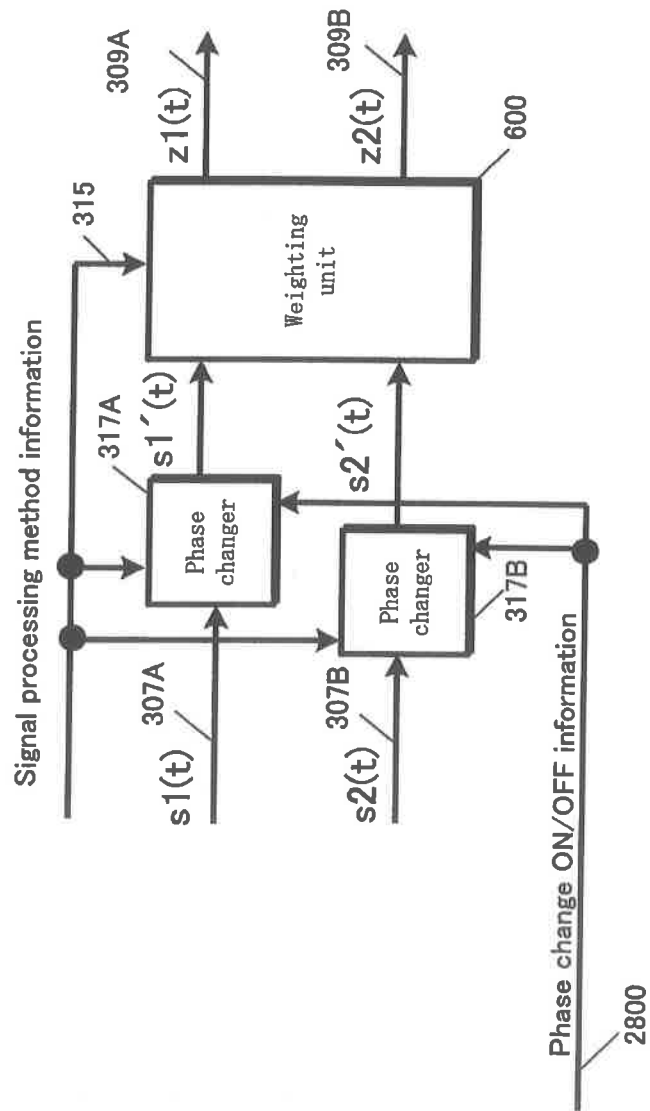


FIG. 30

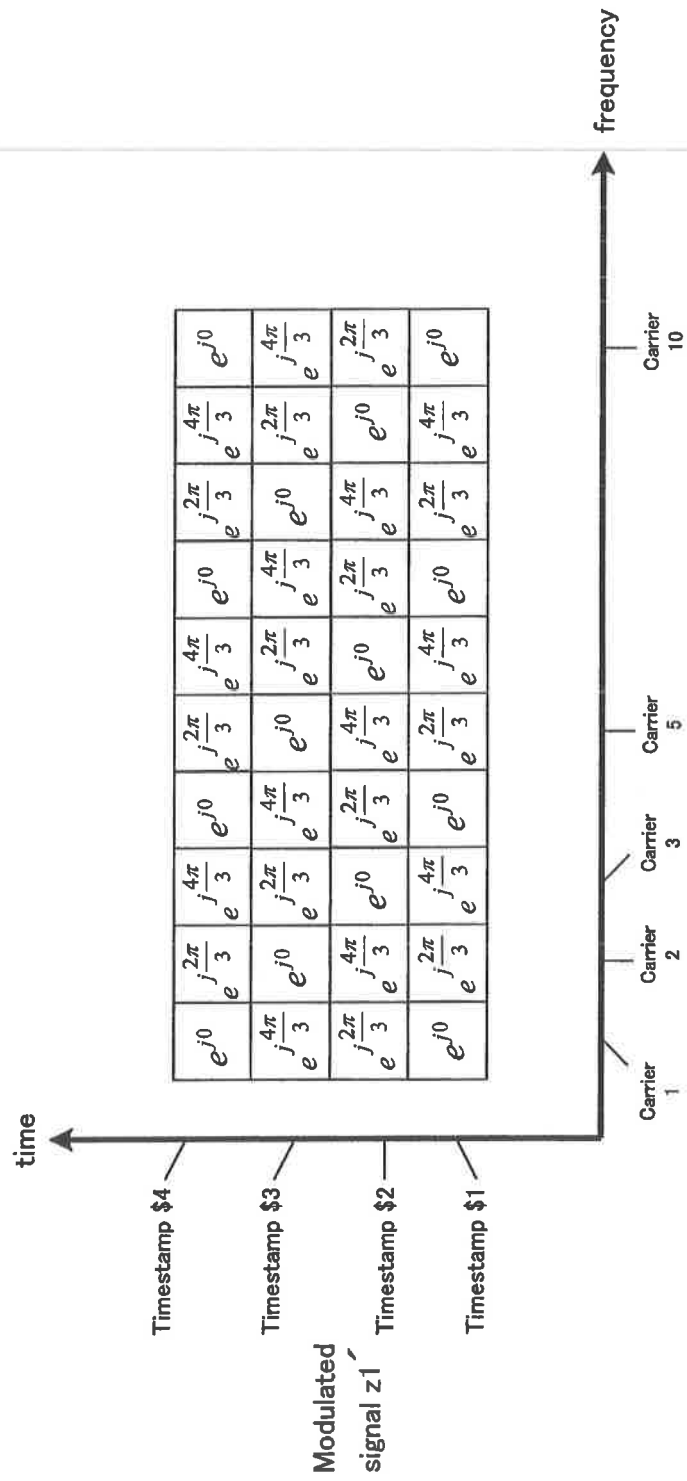


FIG. 31

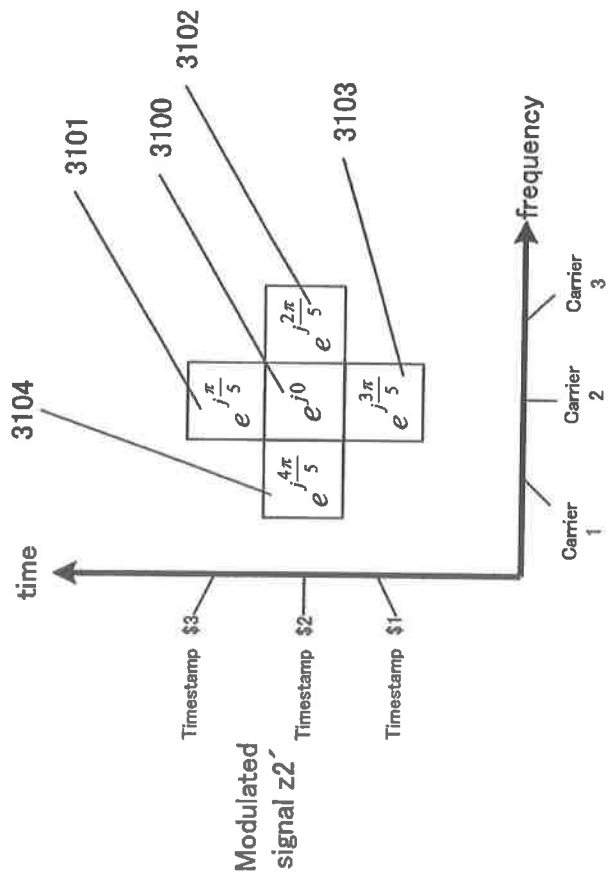


FIG. 32

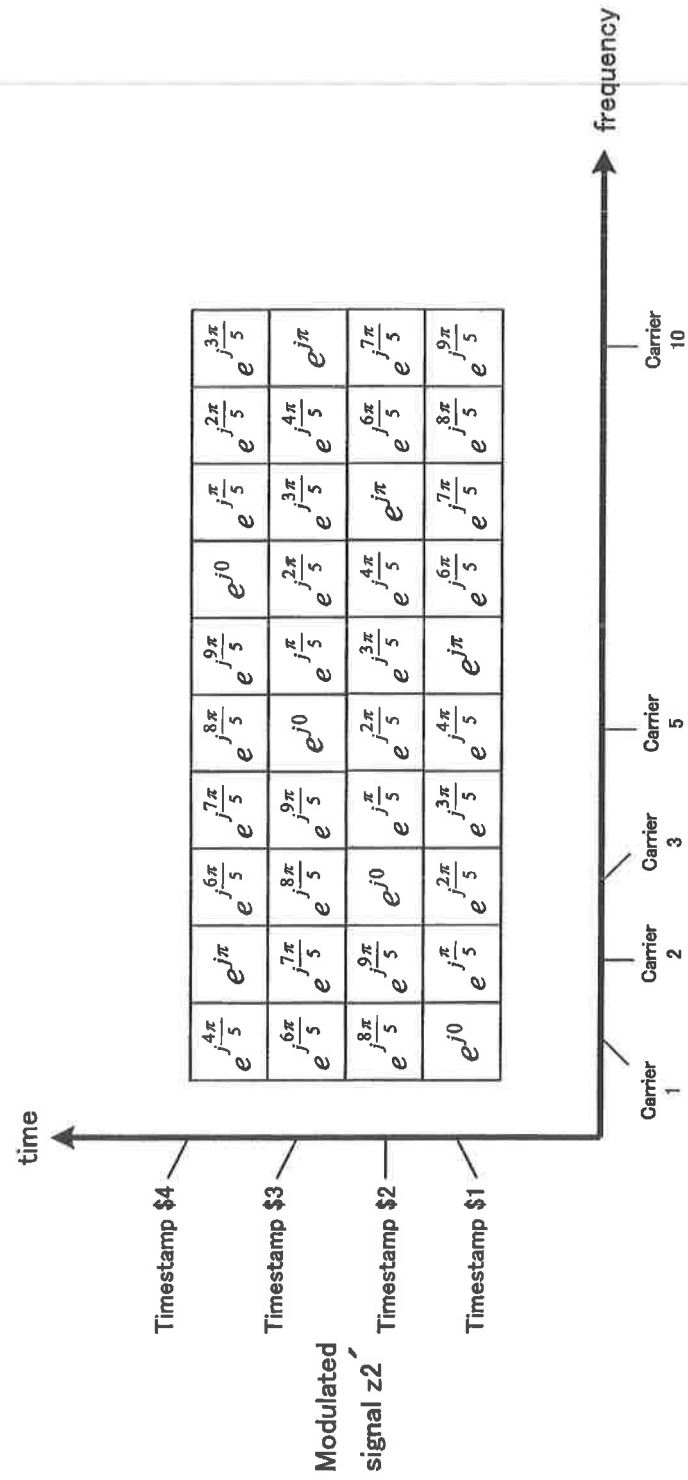


FIG. 33

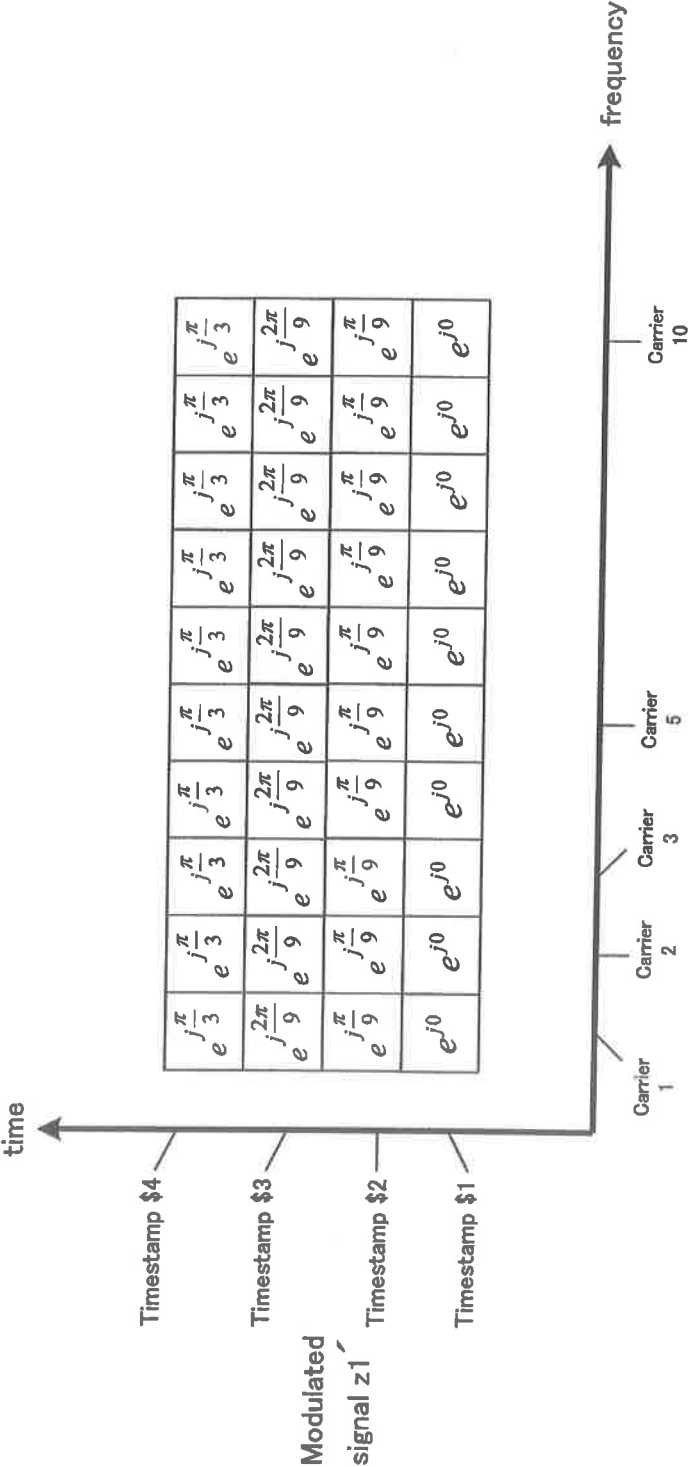


FIG. 34

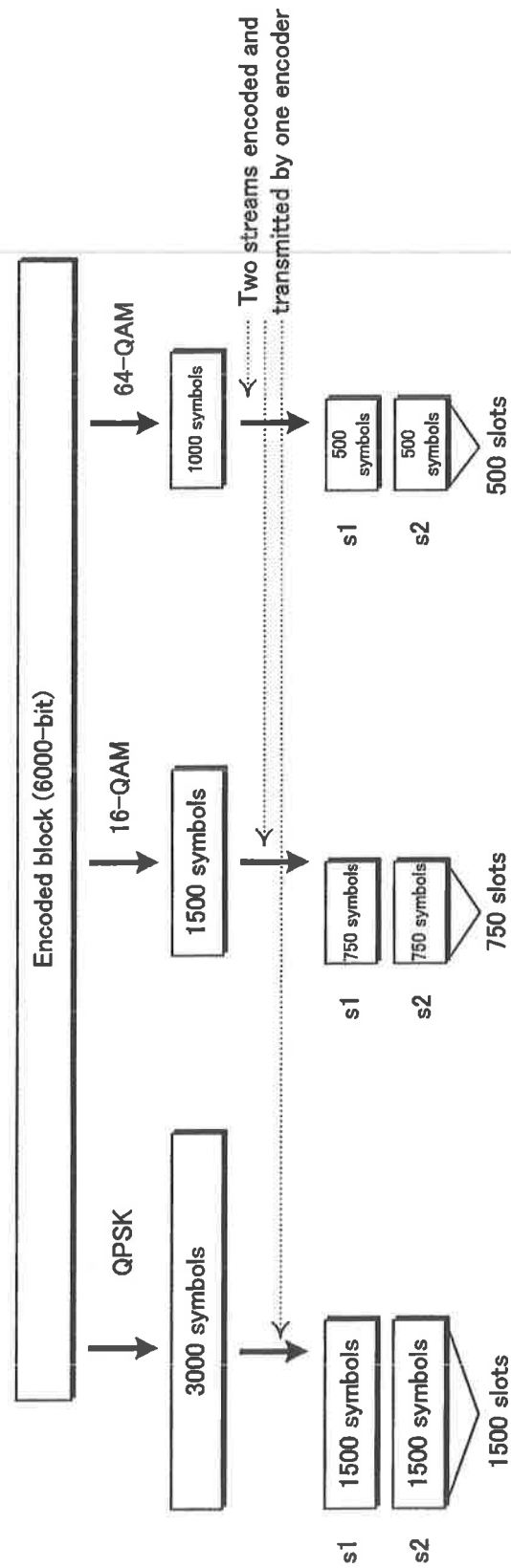
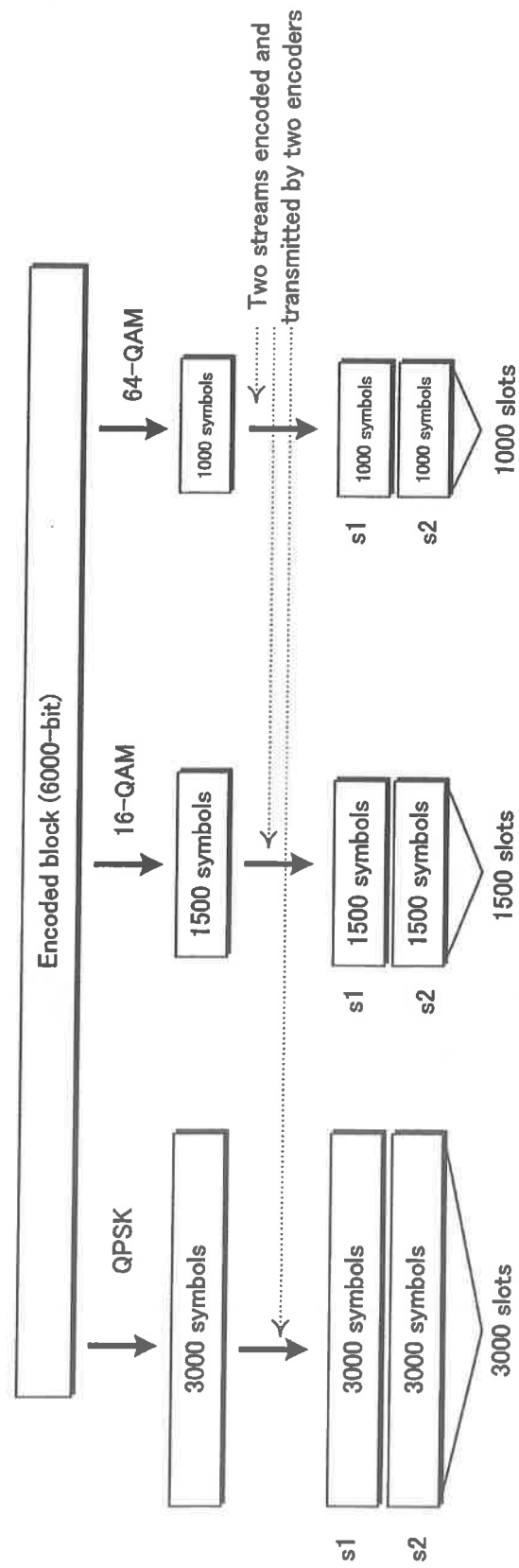
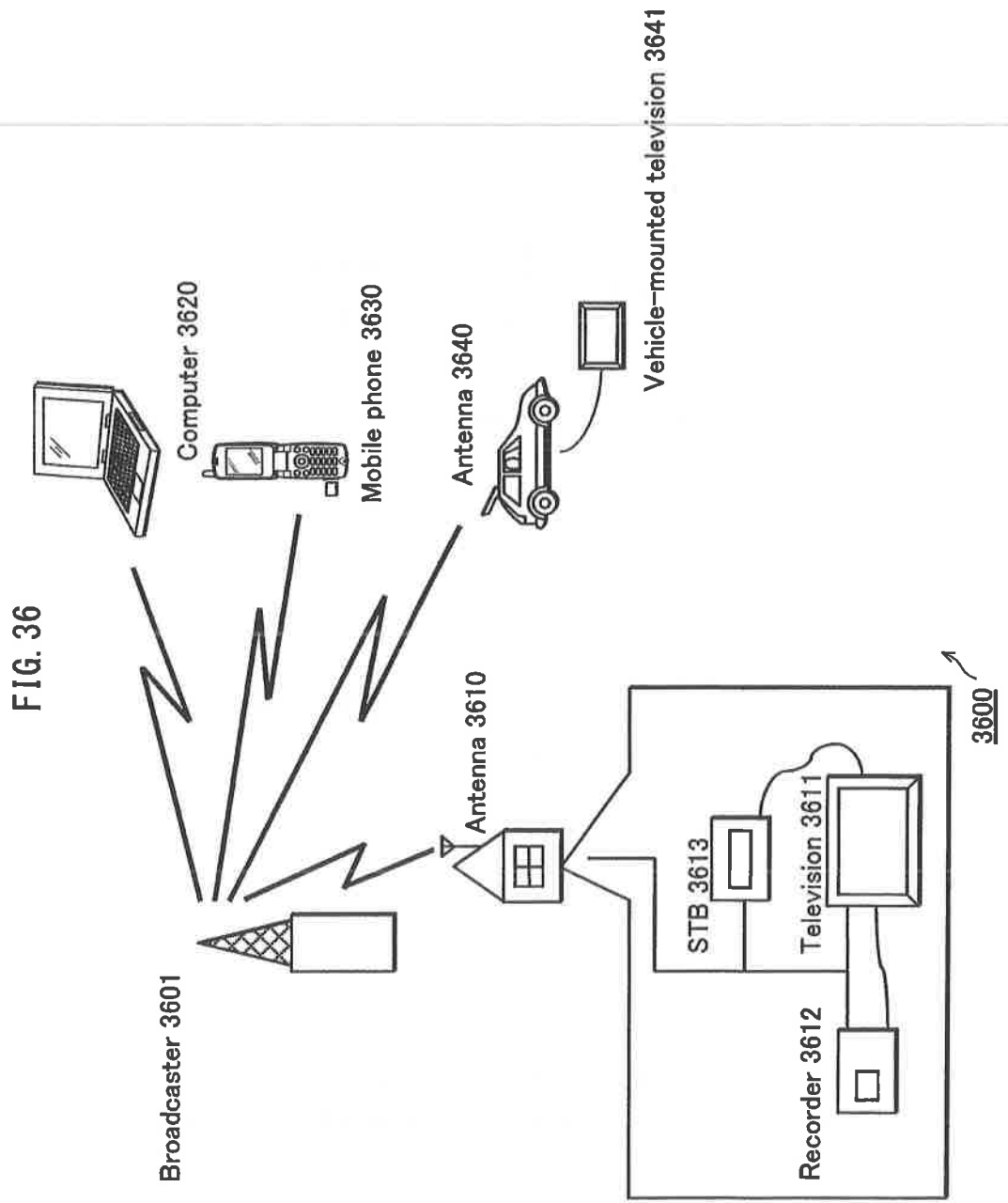


FIG. 35





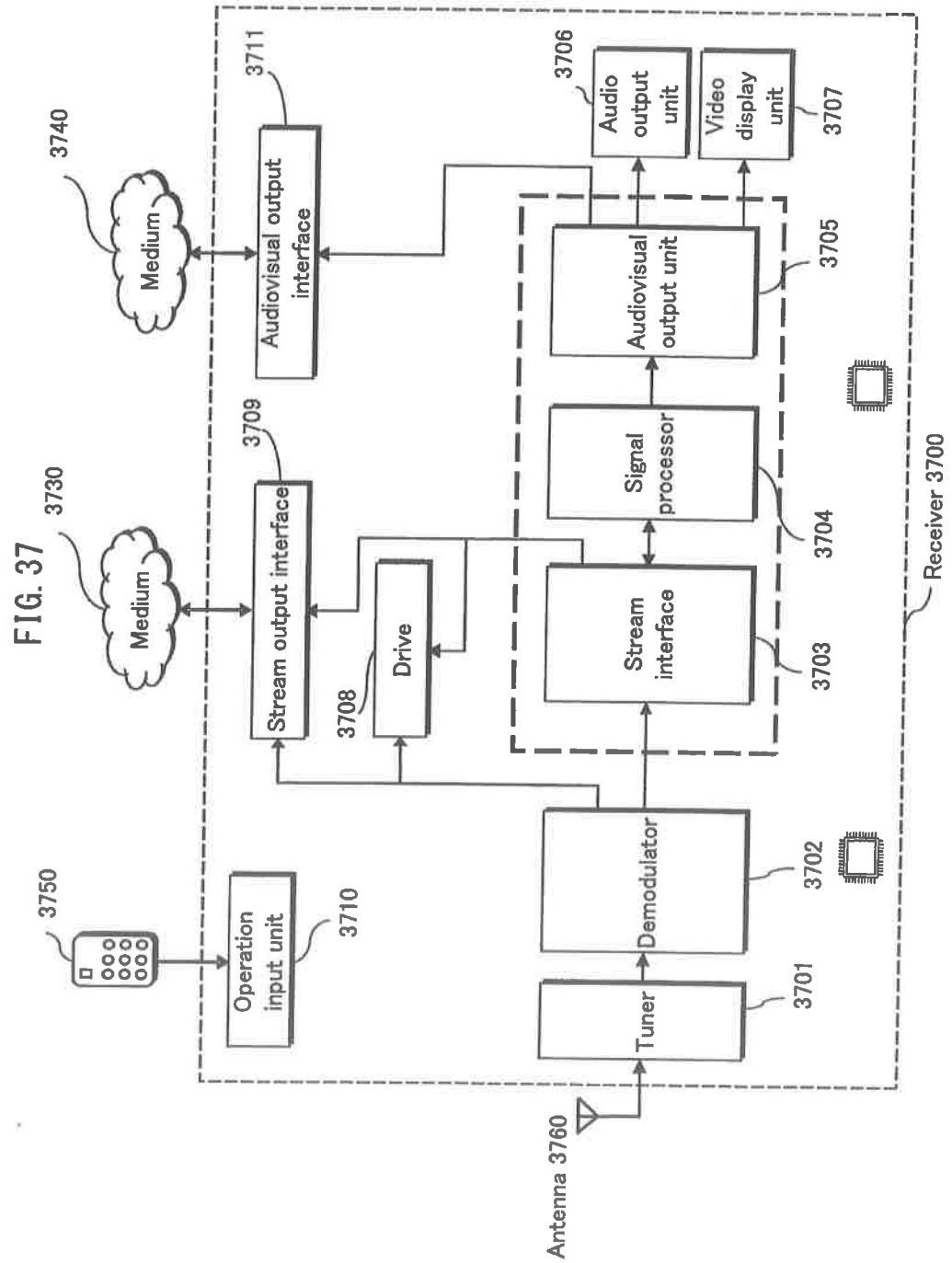


FIG. 38

Video stream PID=(0x1011 Main video)
Audio stream (PID=0x1100)
Audio stream (PID=0x1101)
Presentation graphics stream (PID=0x1200)
Presentation graphics stream (PID=0x1201)
Interactive graphics stream (PID=0x1400)
Video stream (PID=0x1B00 Sub-video)
Video stream (PID=0x1B01 Sub-video)

FIG. 39

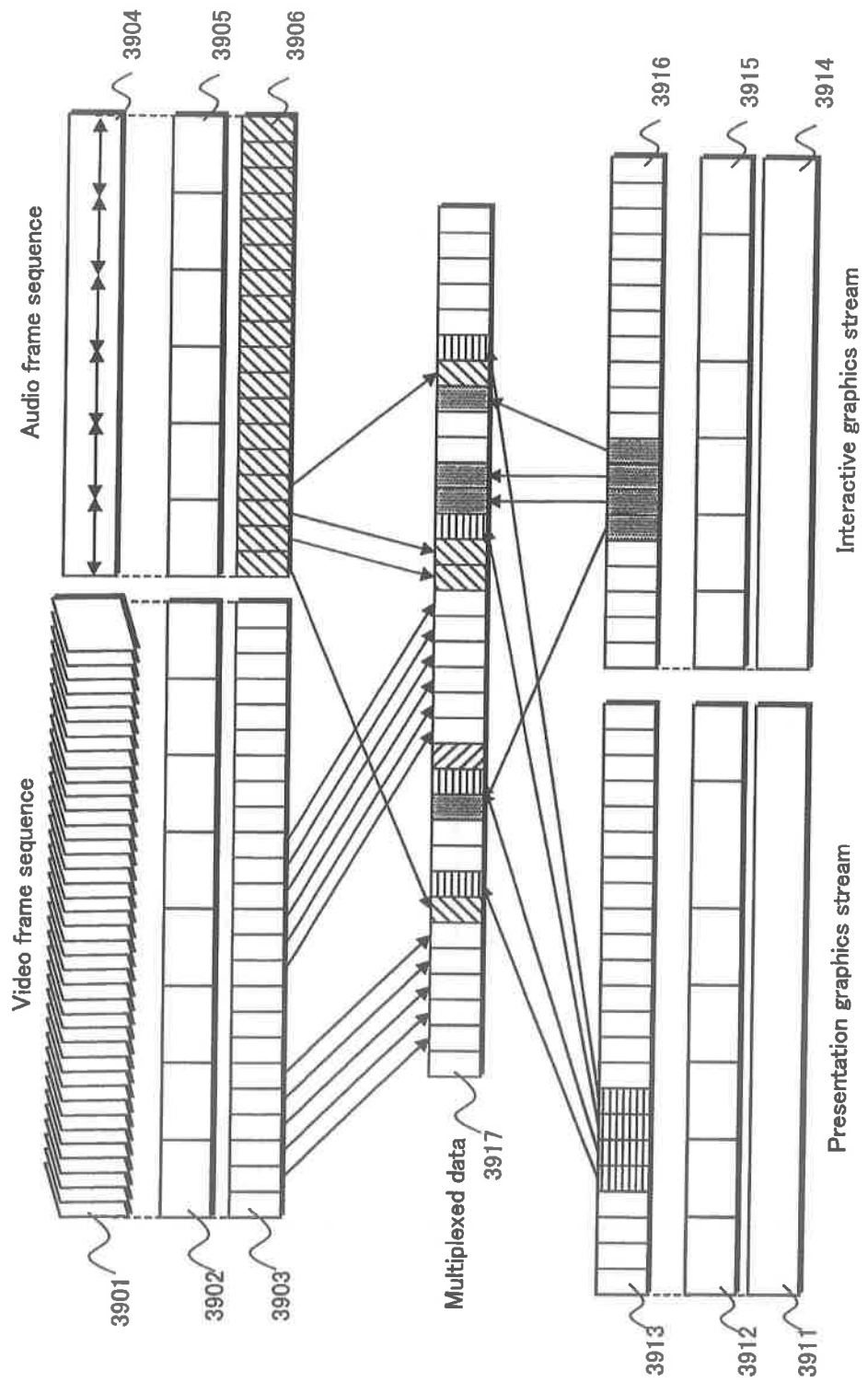


FIG. 40

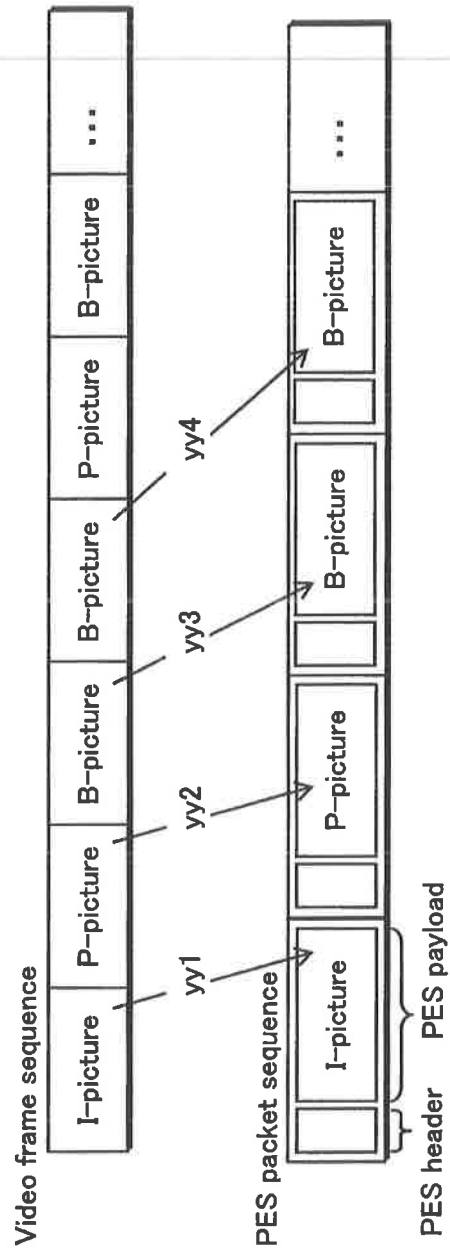


FIG. 41

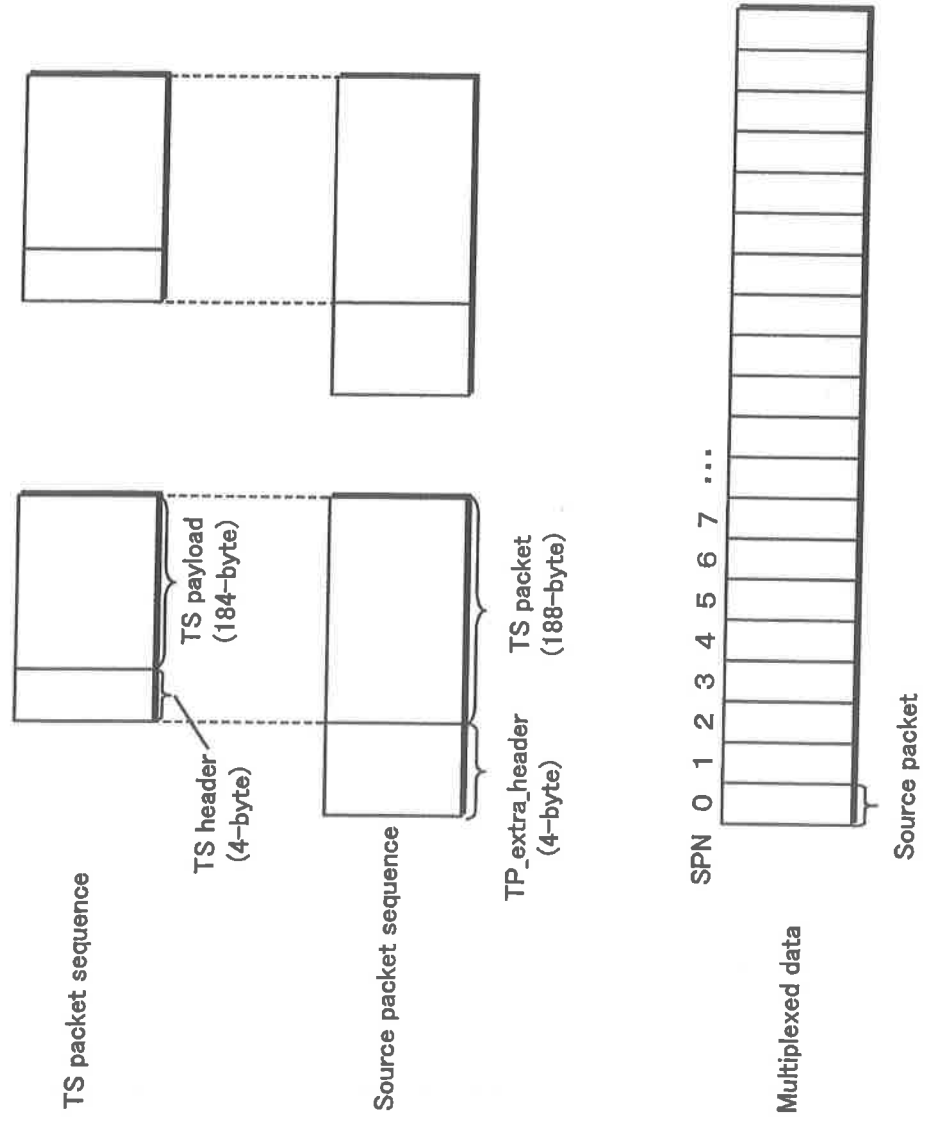


FIG. 42

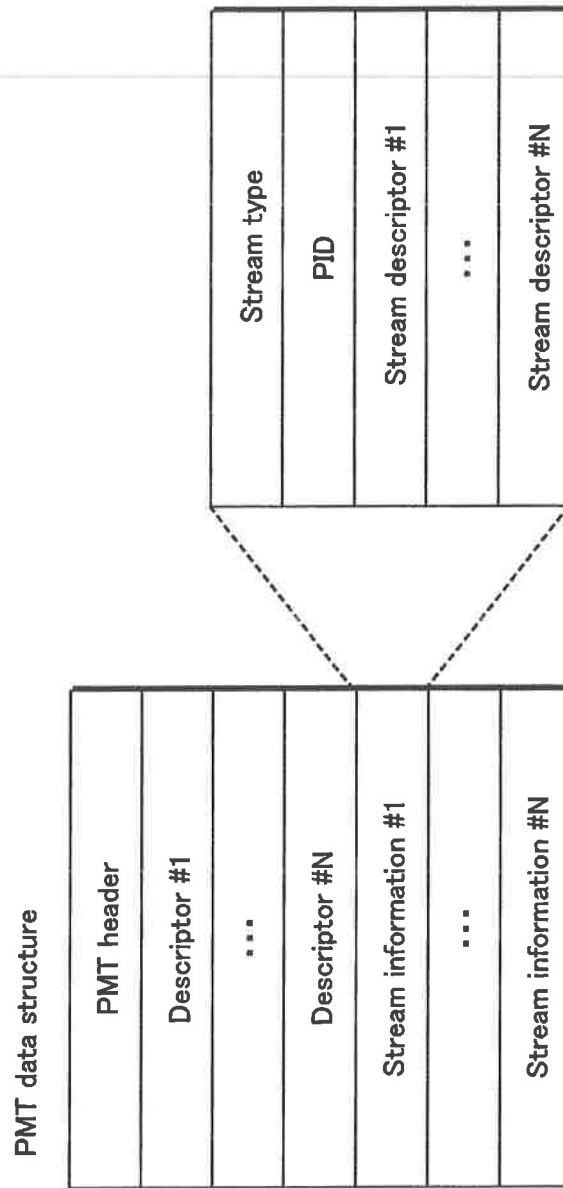


FIG. 43

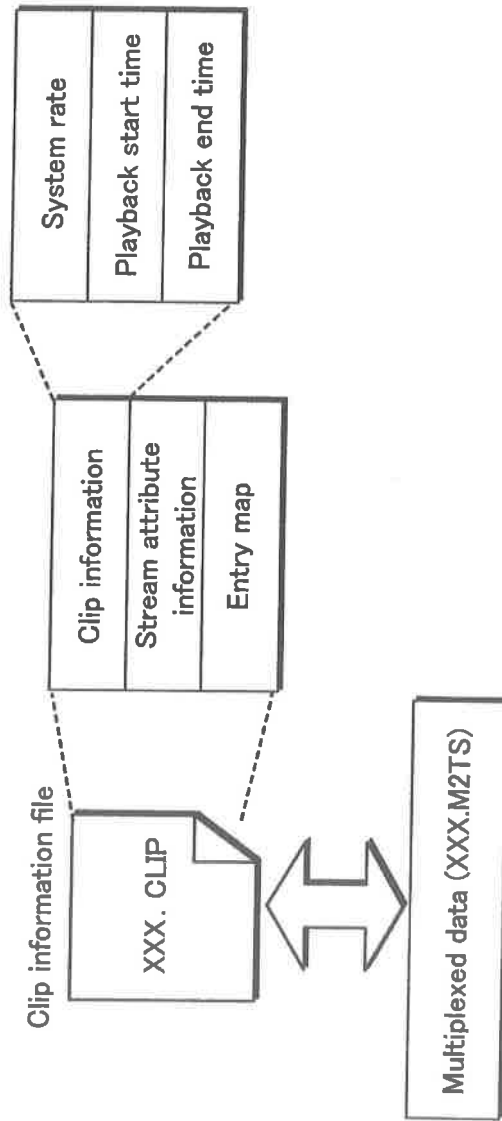


FIG. 44

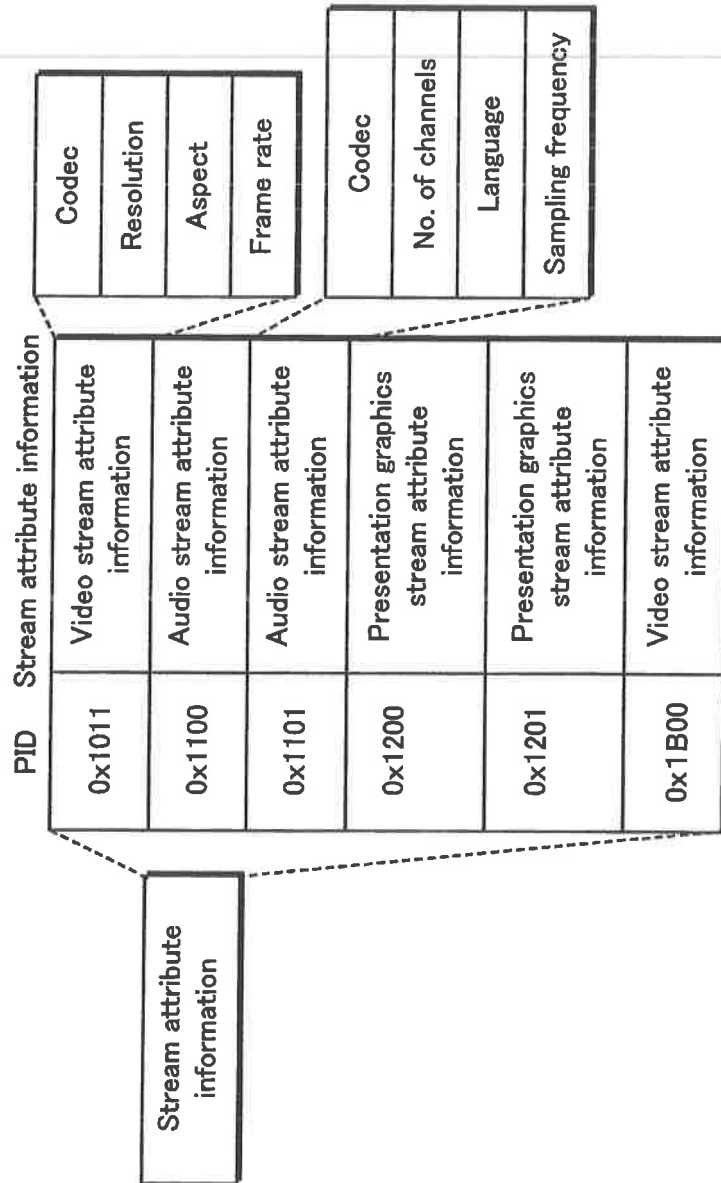


FIG. 45

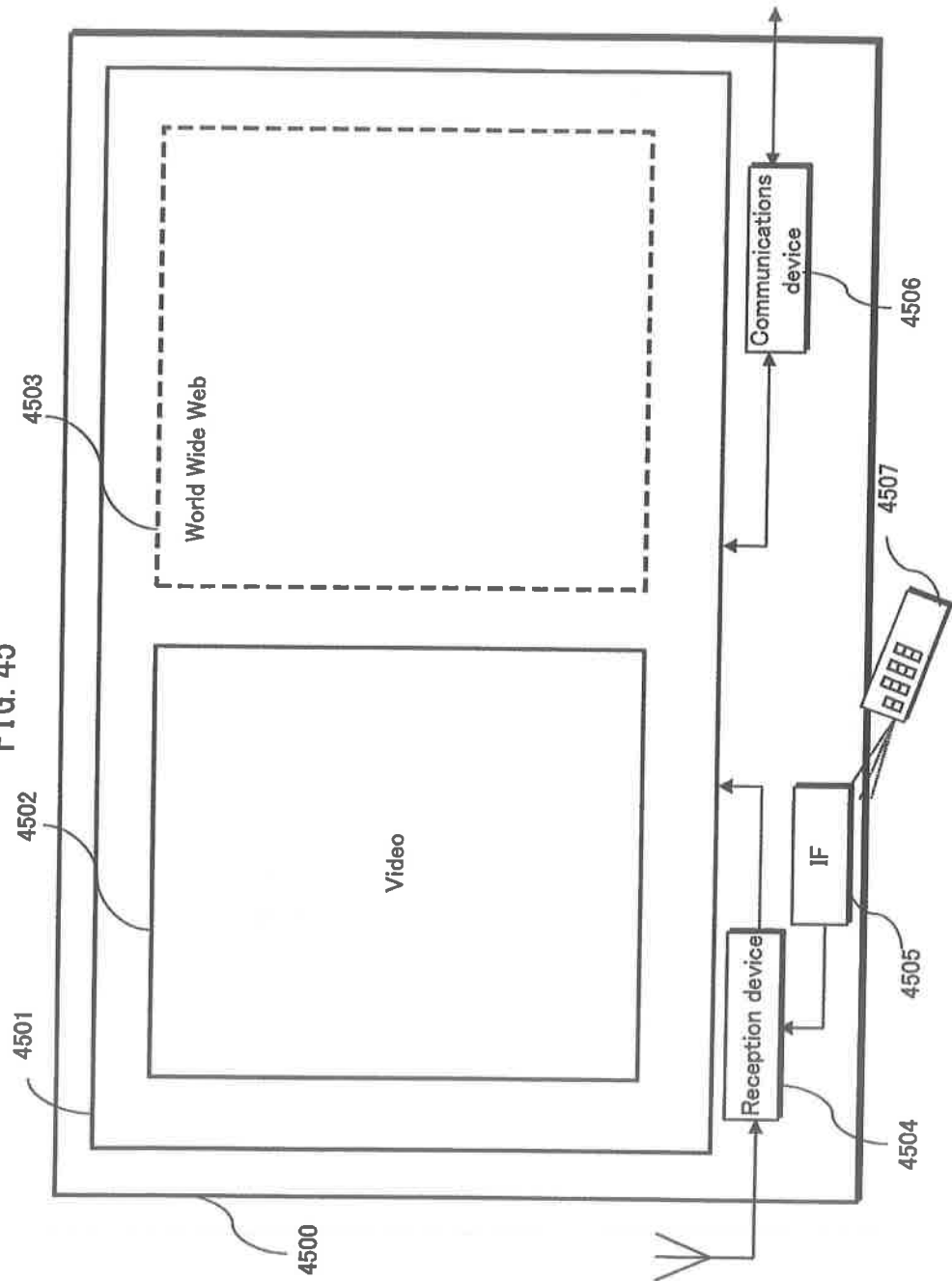
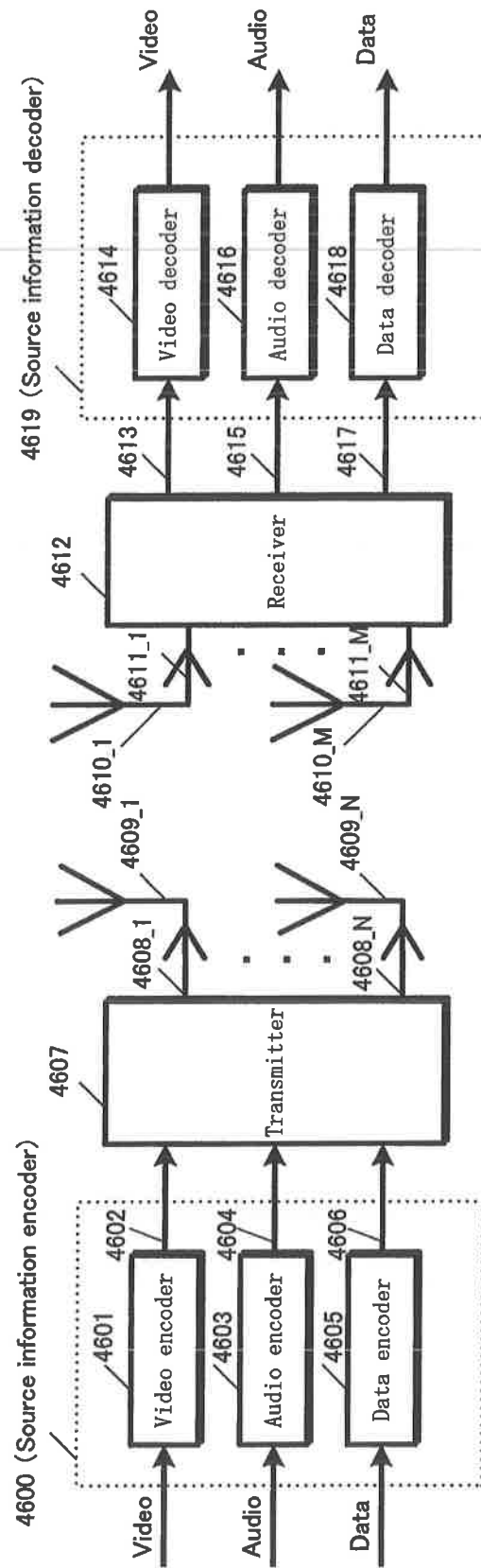
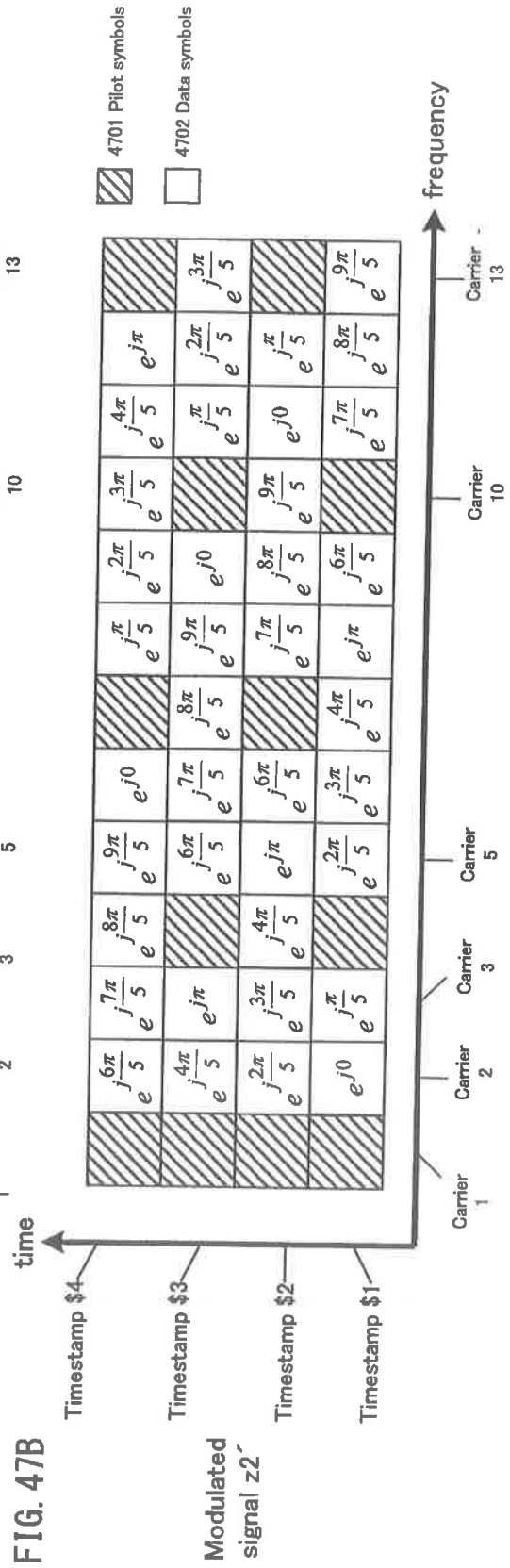
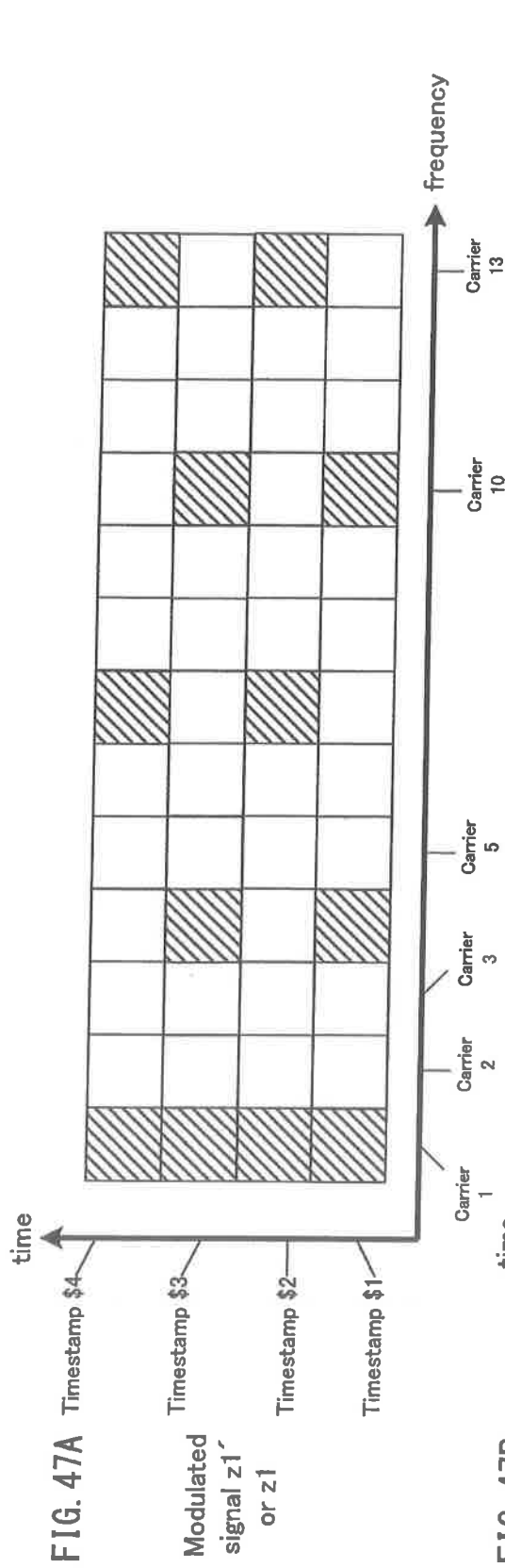
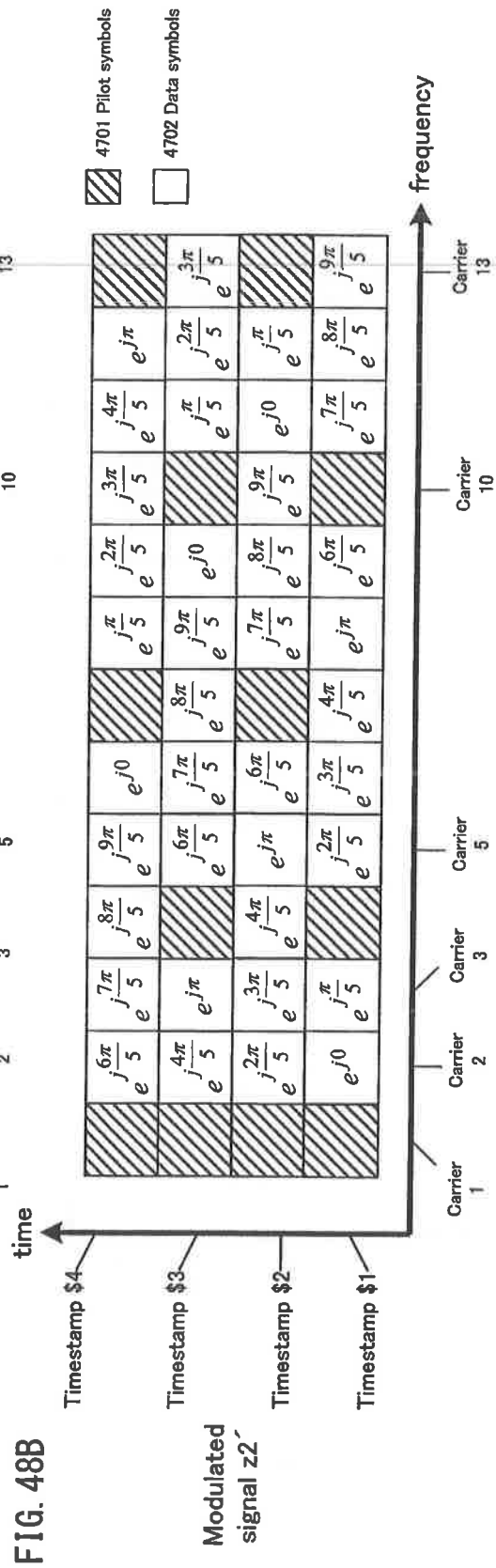
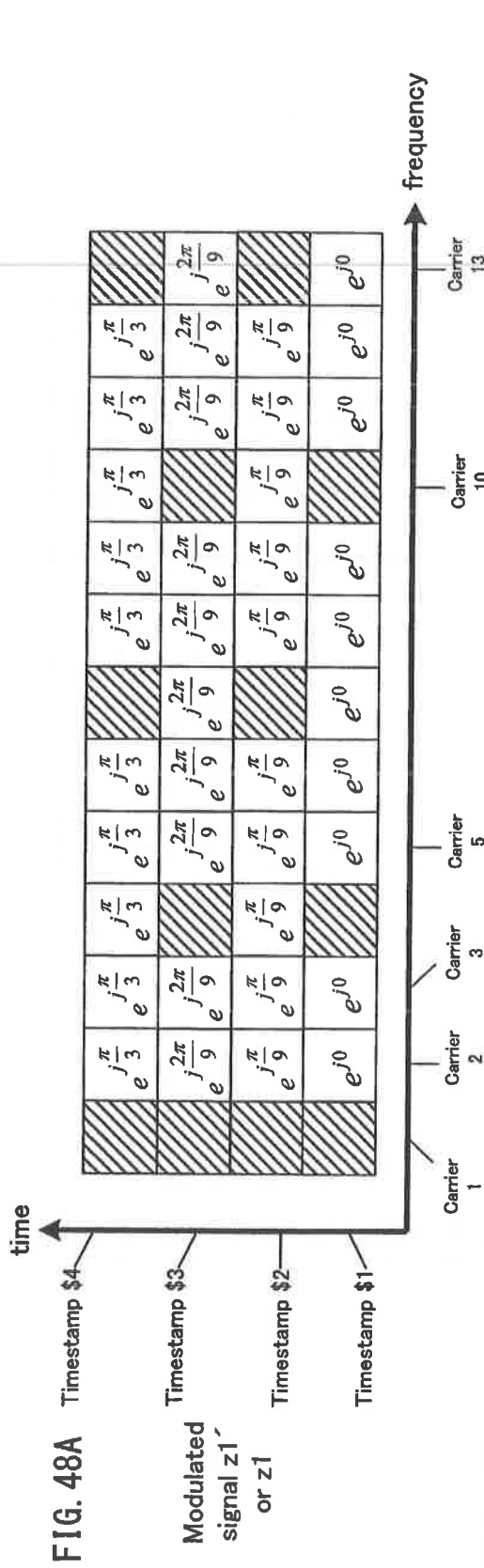
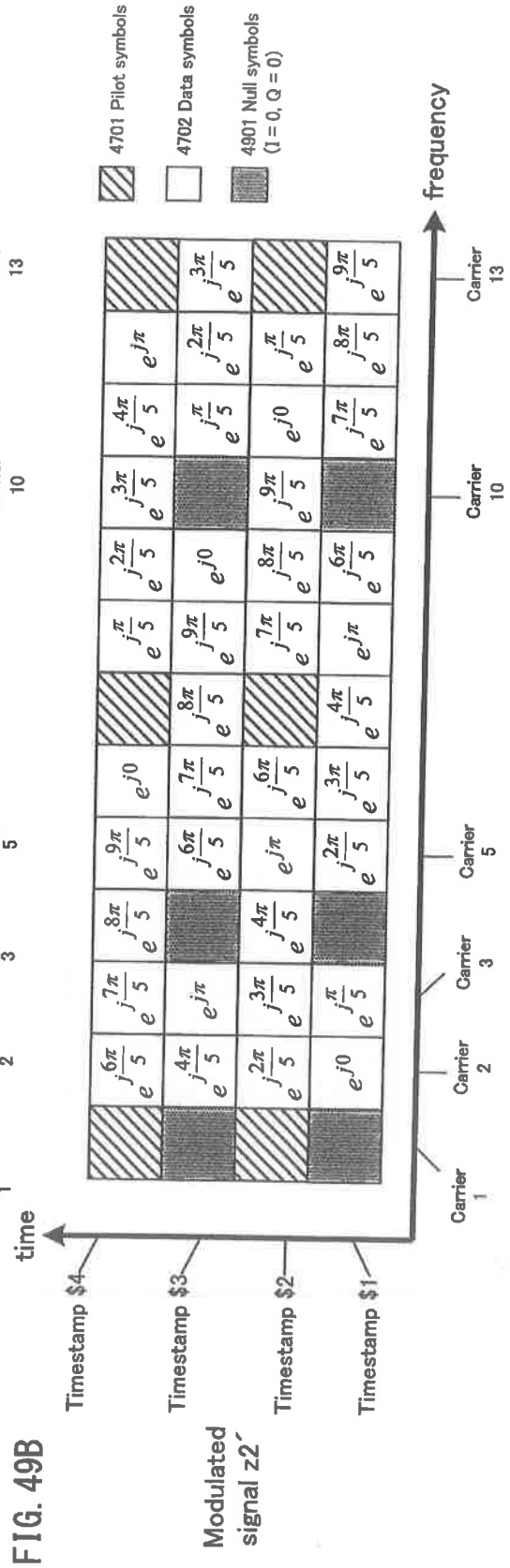
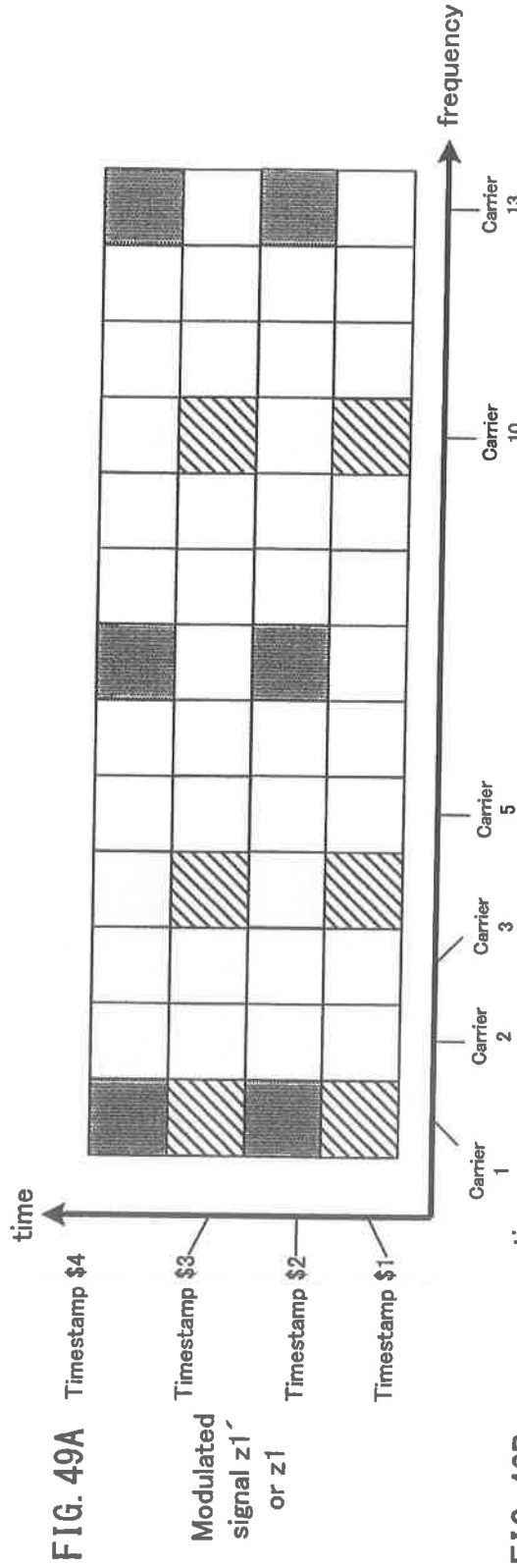


FIG. 46









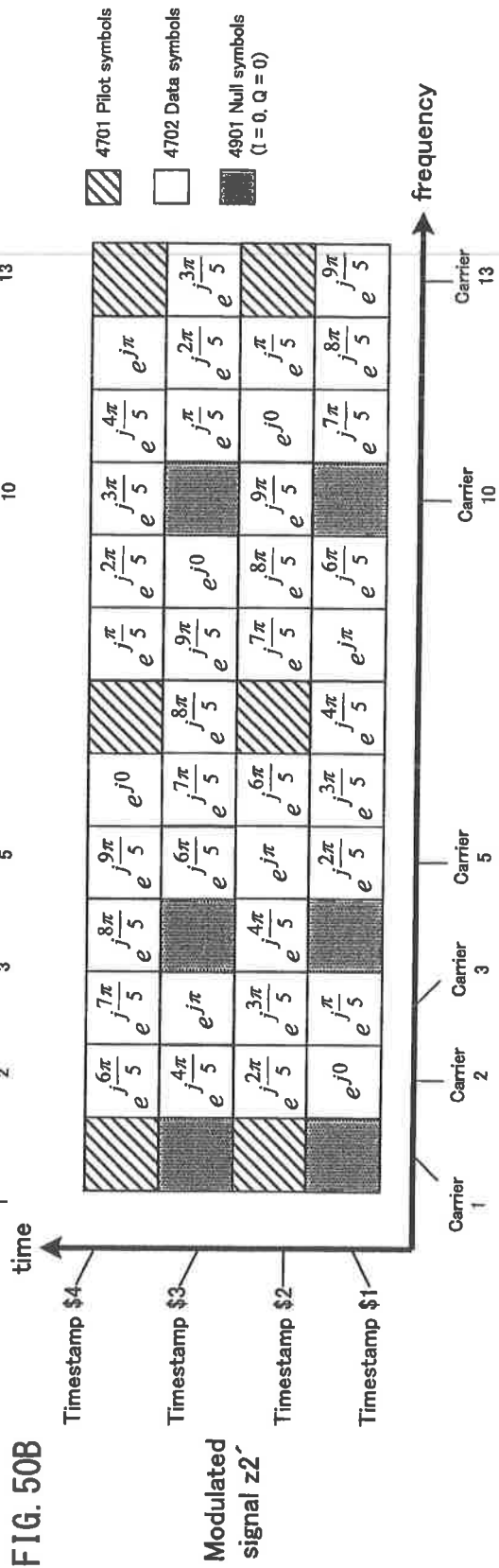
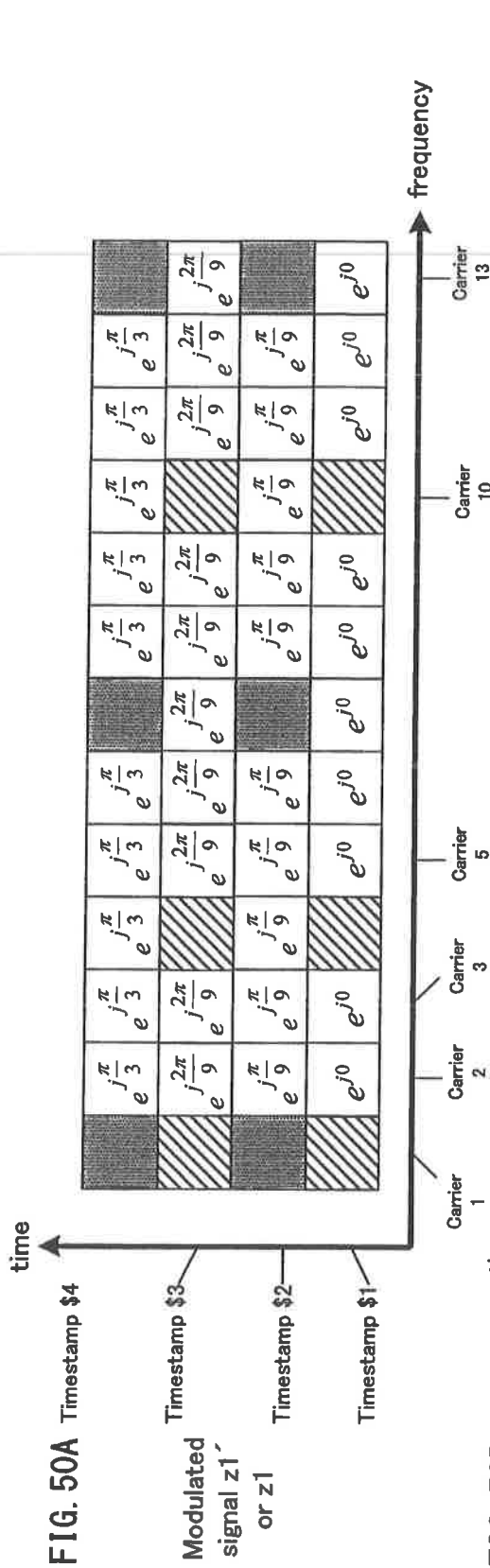


FIG. 51

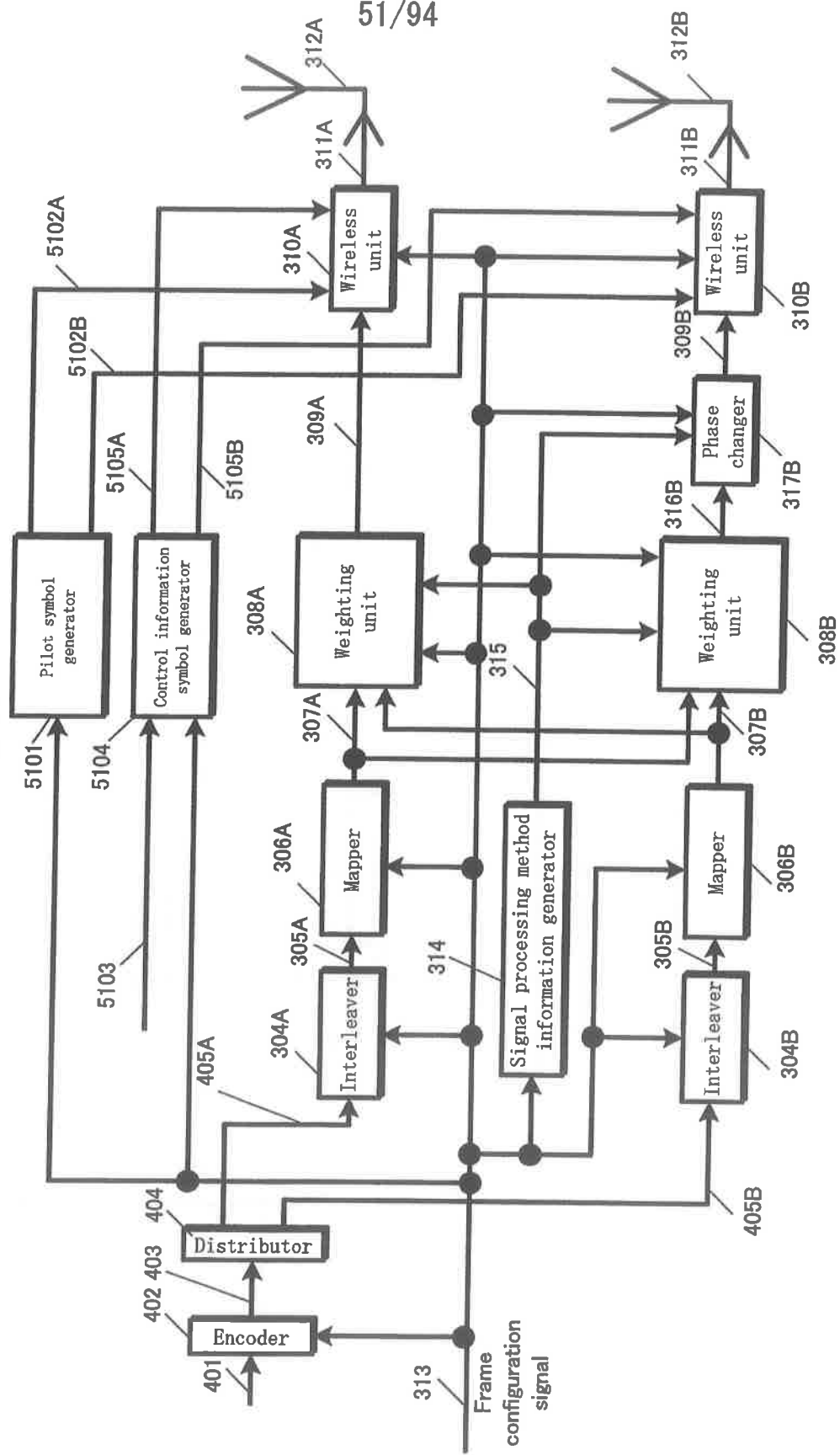


FIG. 52

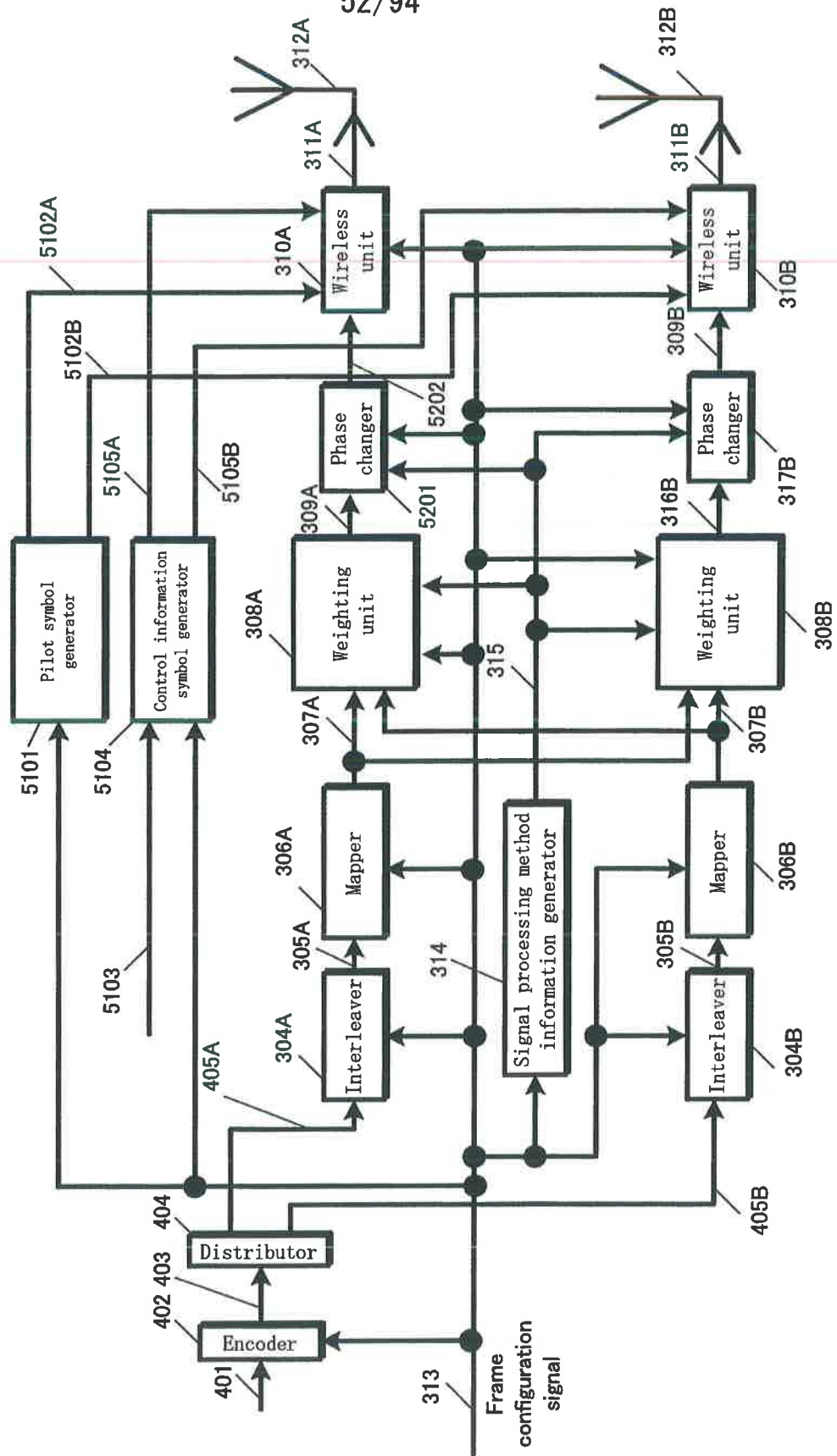


FIG. 53

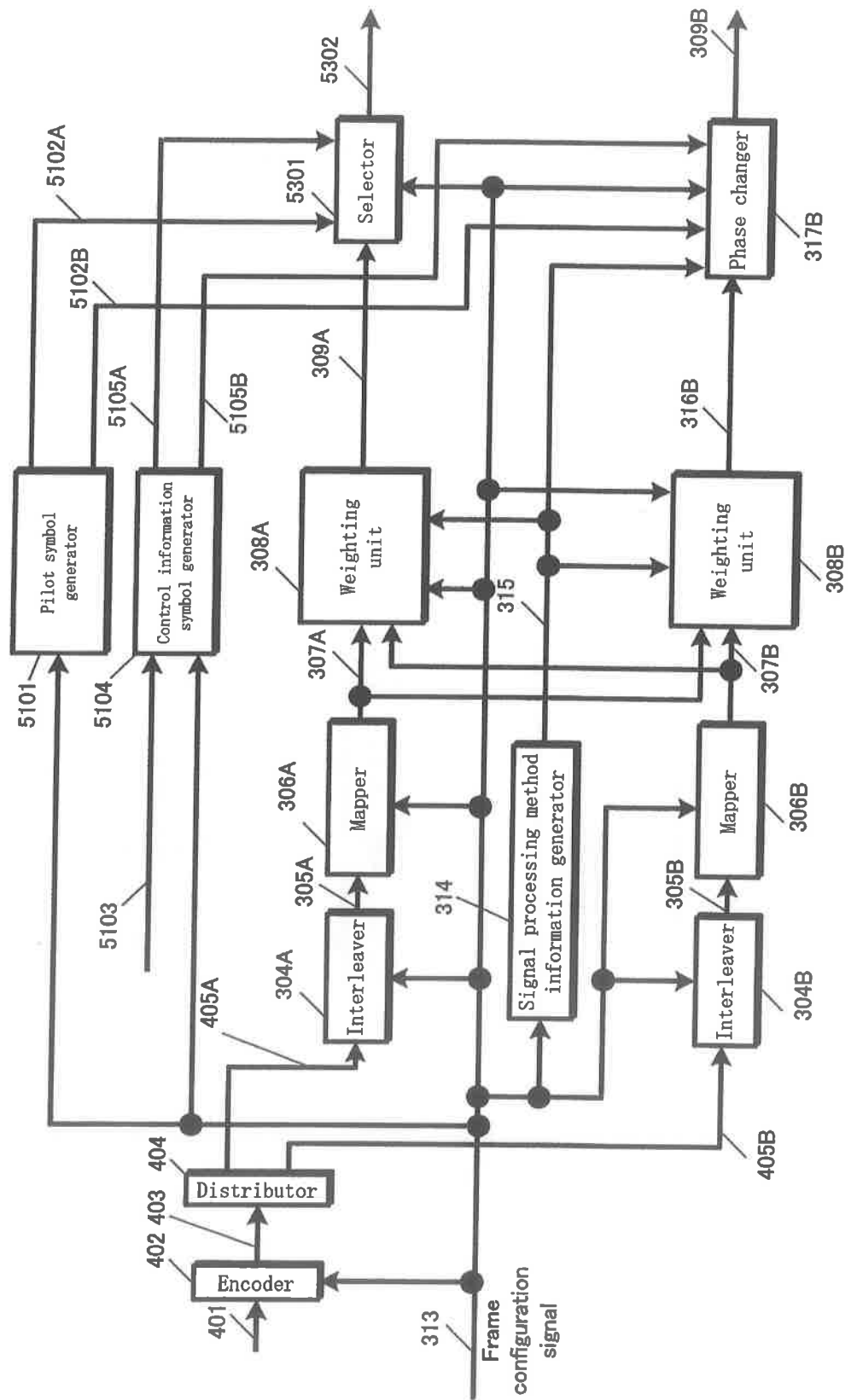


FIG. 54

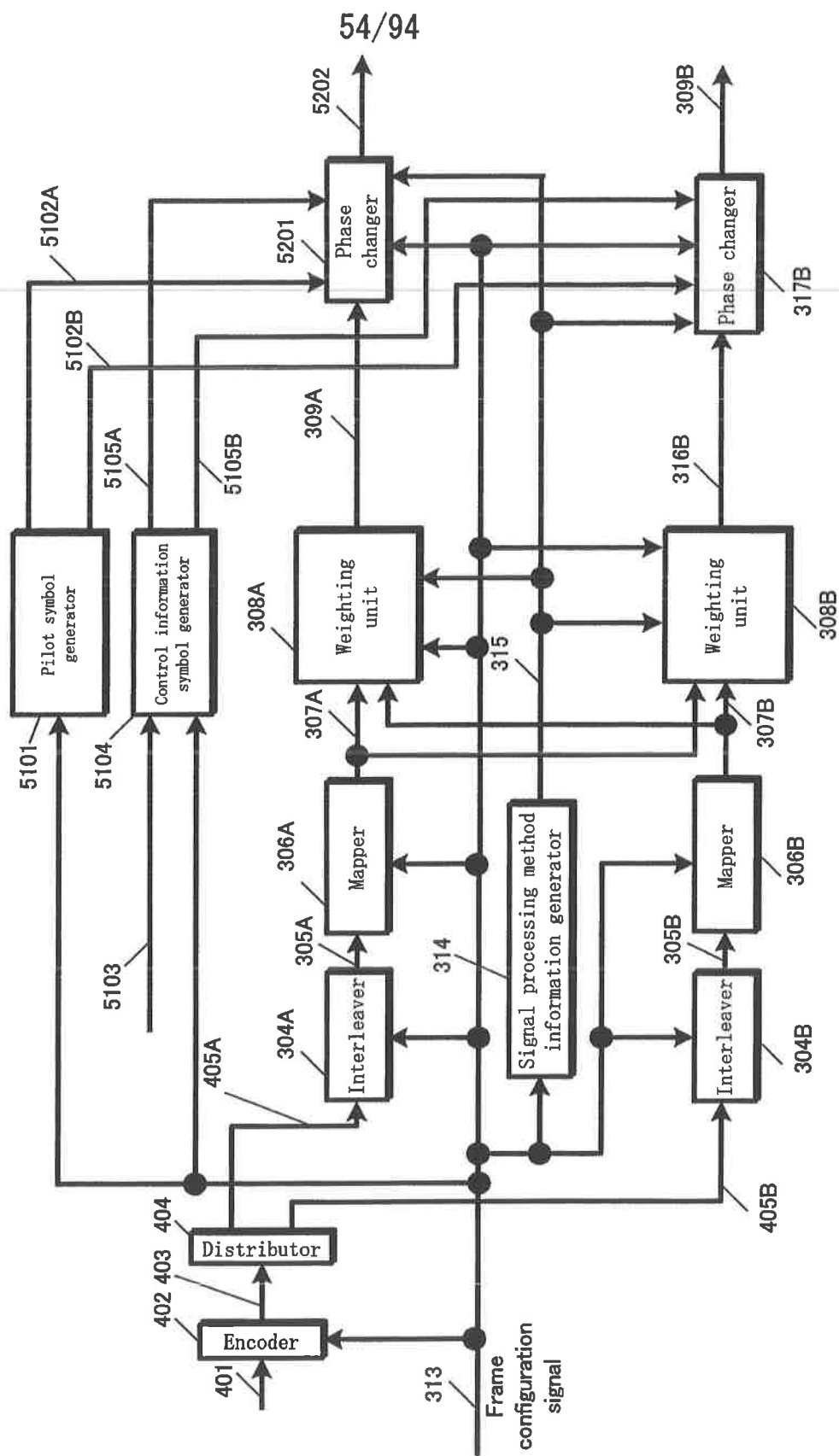


FIG. 55

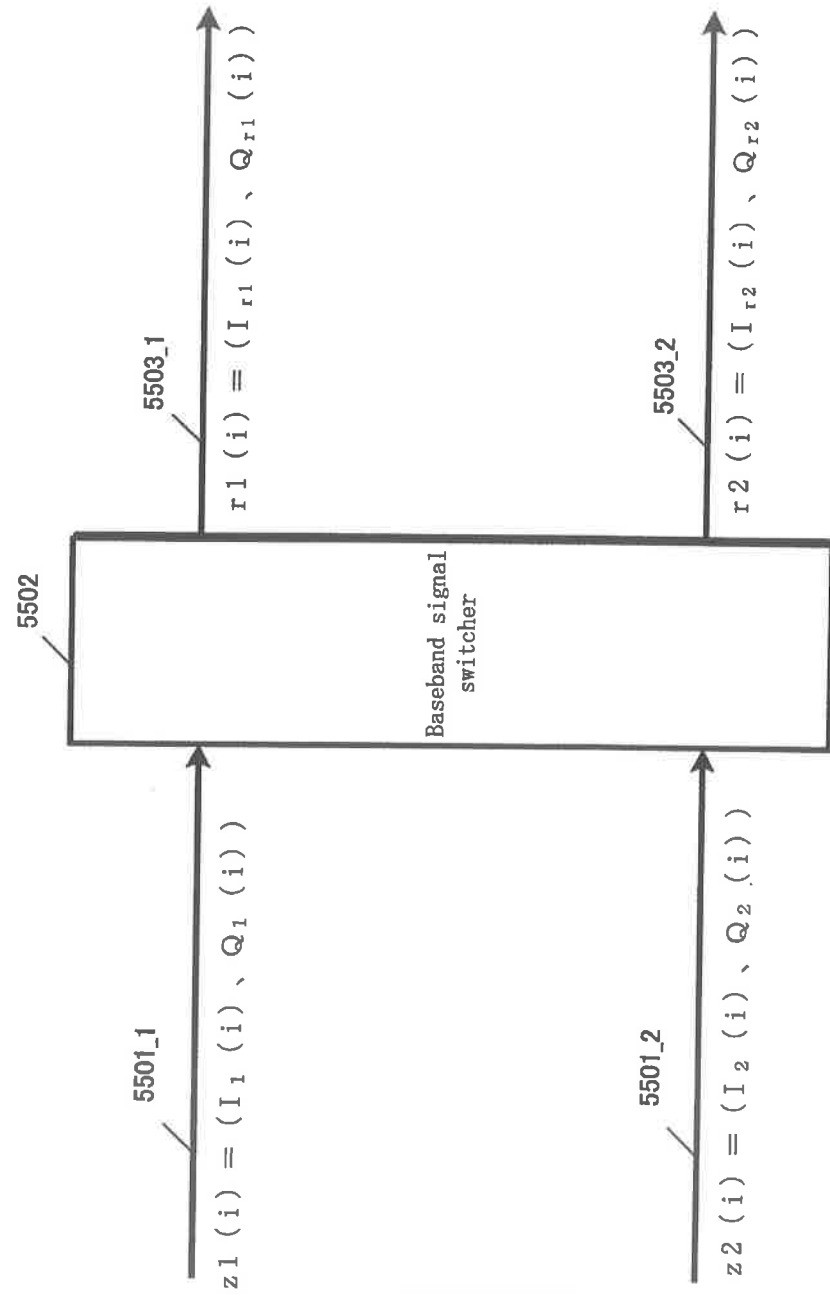


FIG. 56

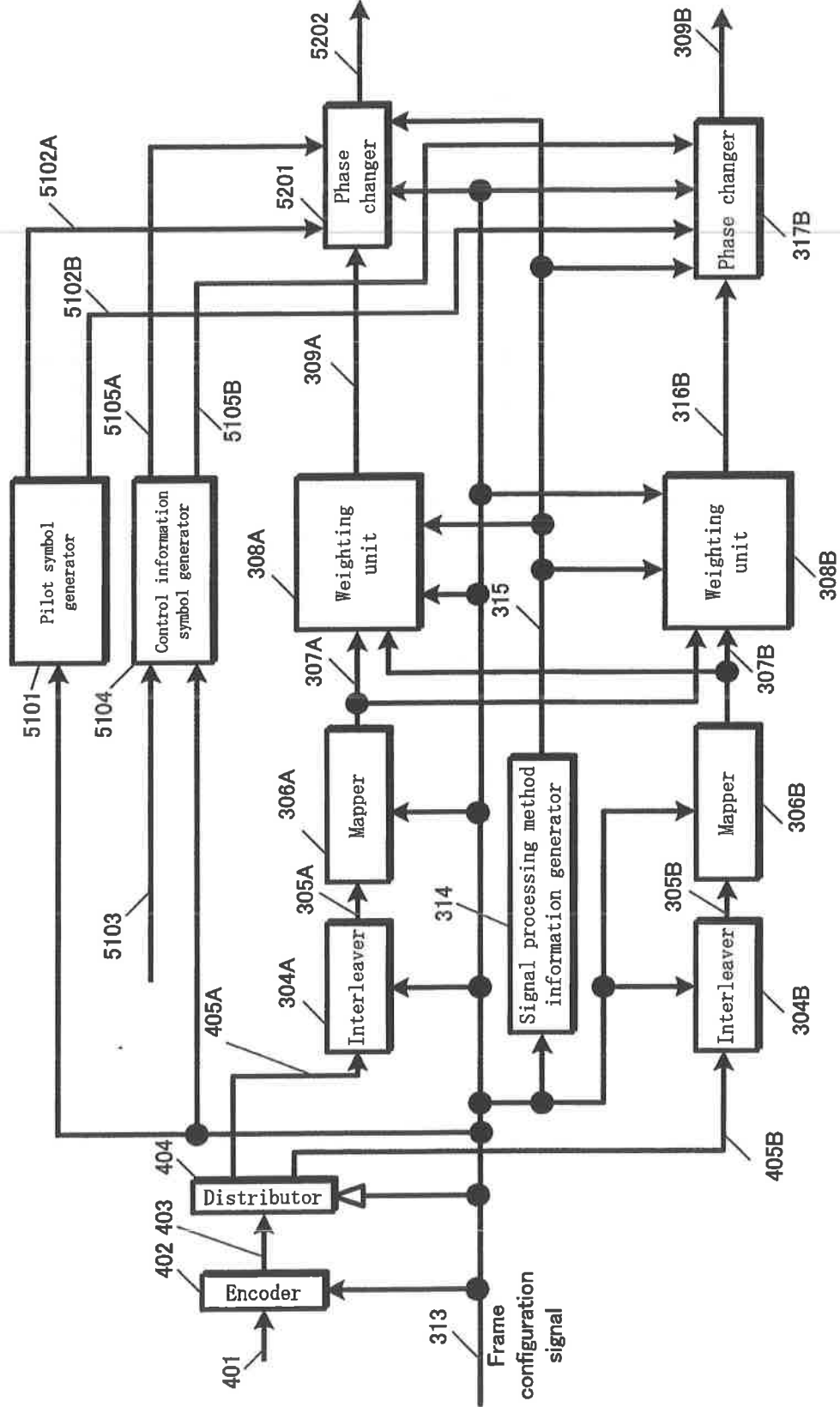


FIG. 57

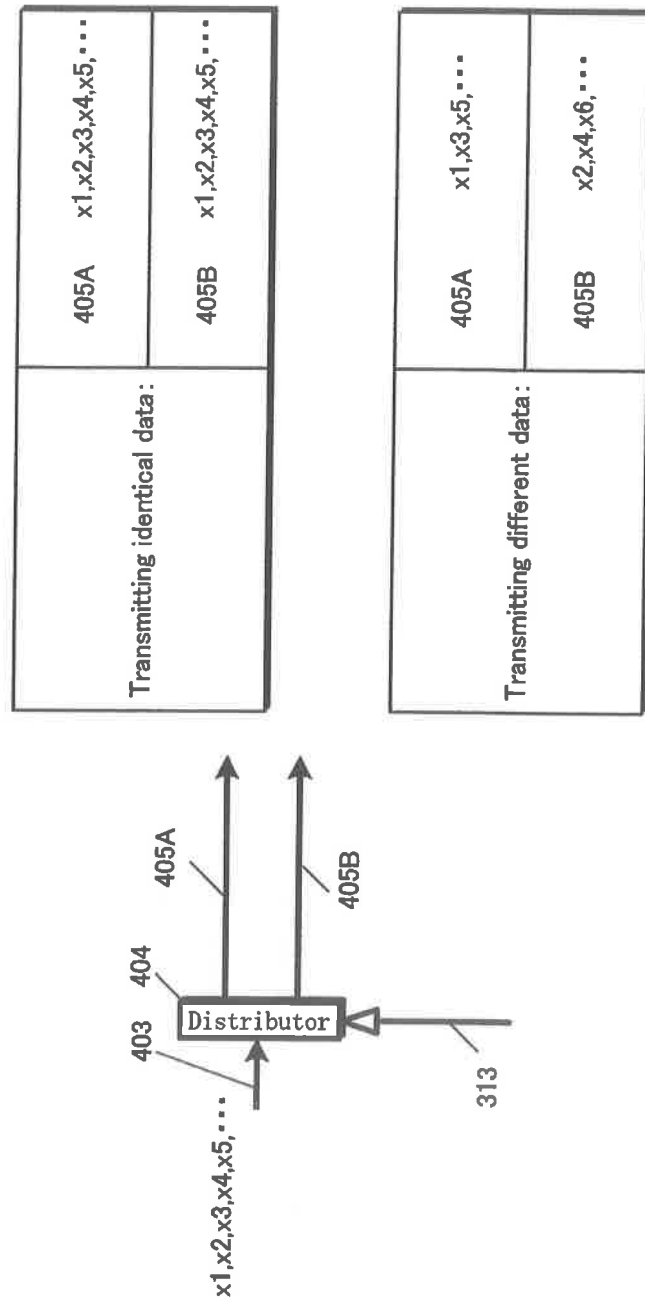


FIG. 58

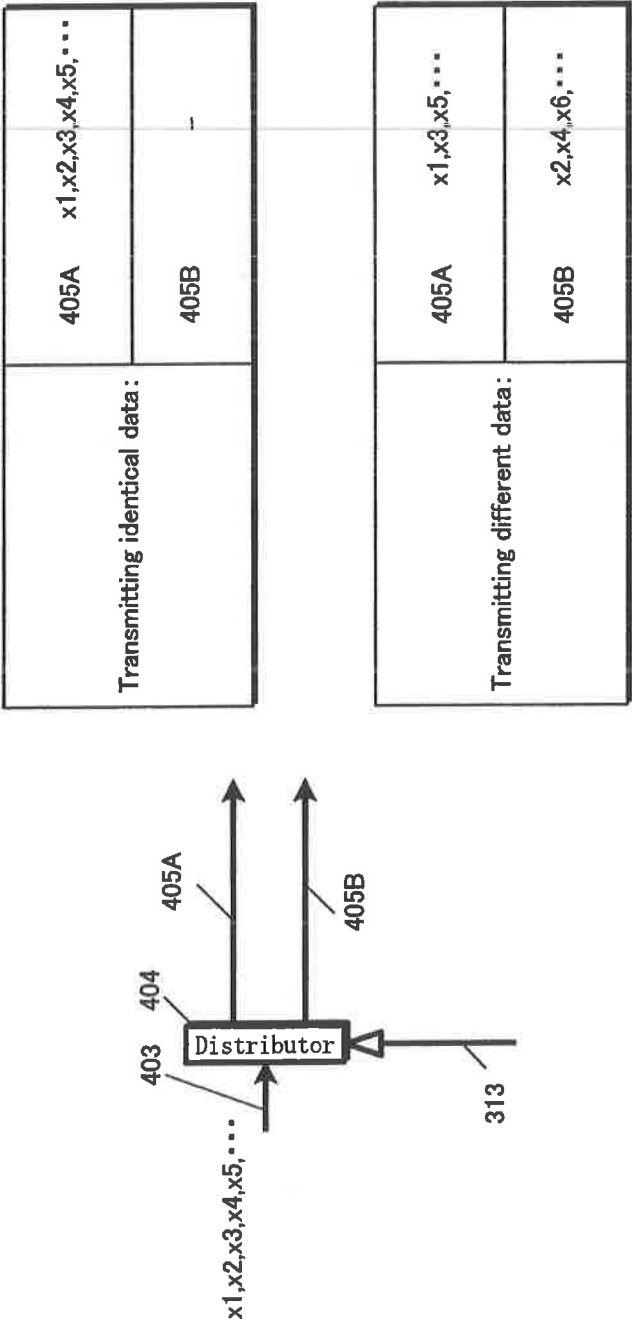


FIG. 59

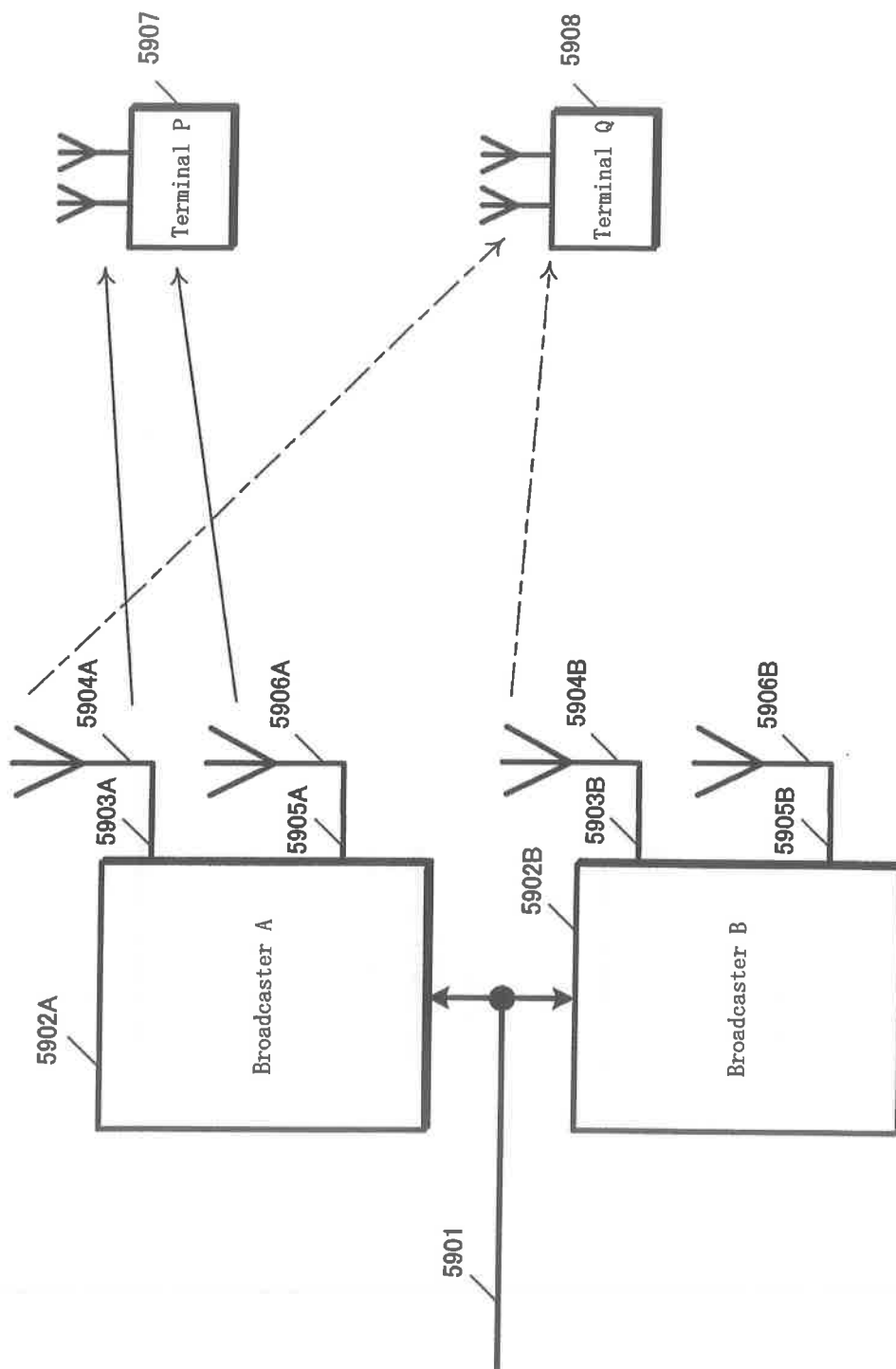


FIG. 60

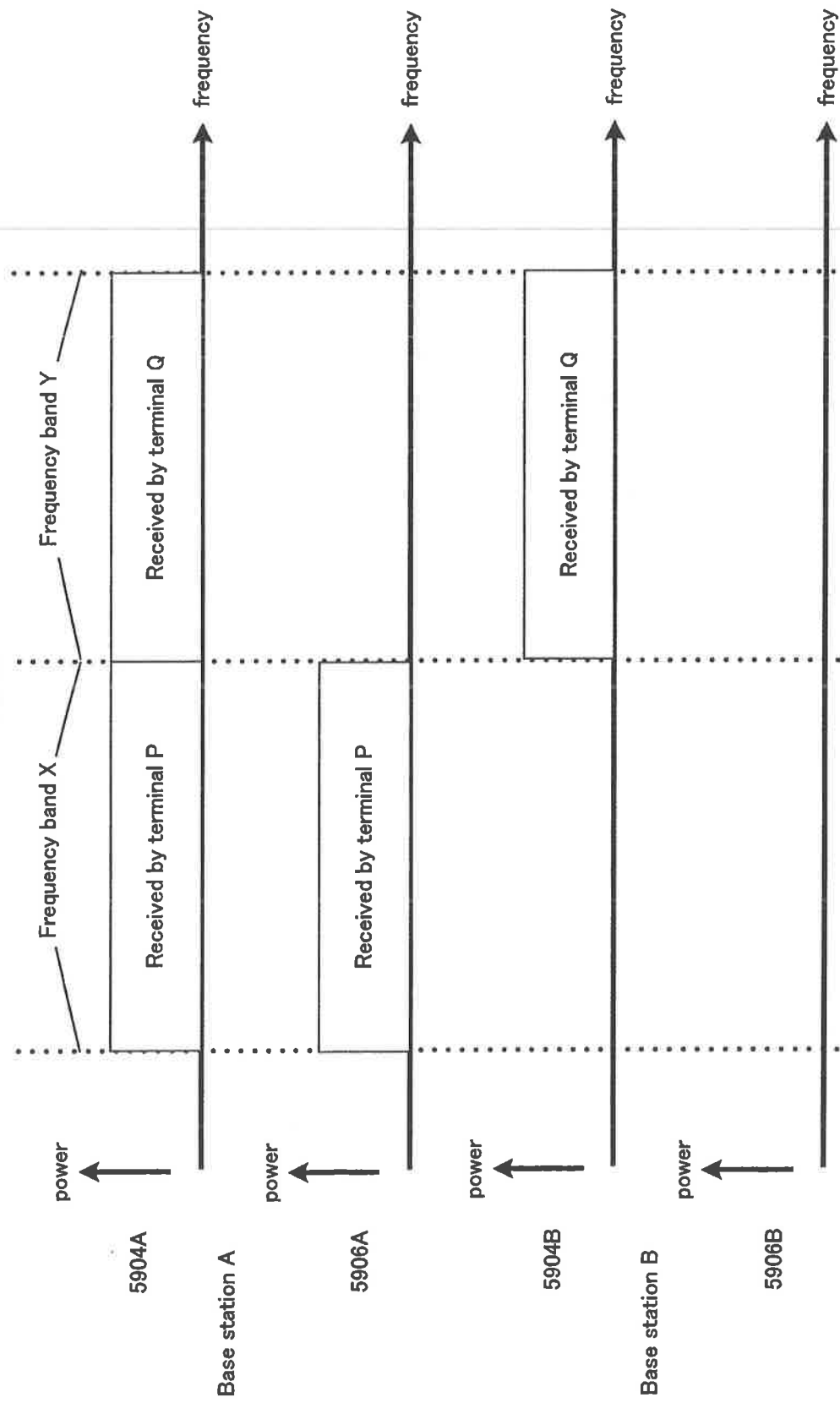
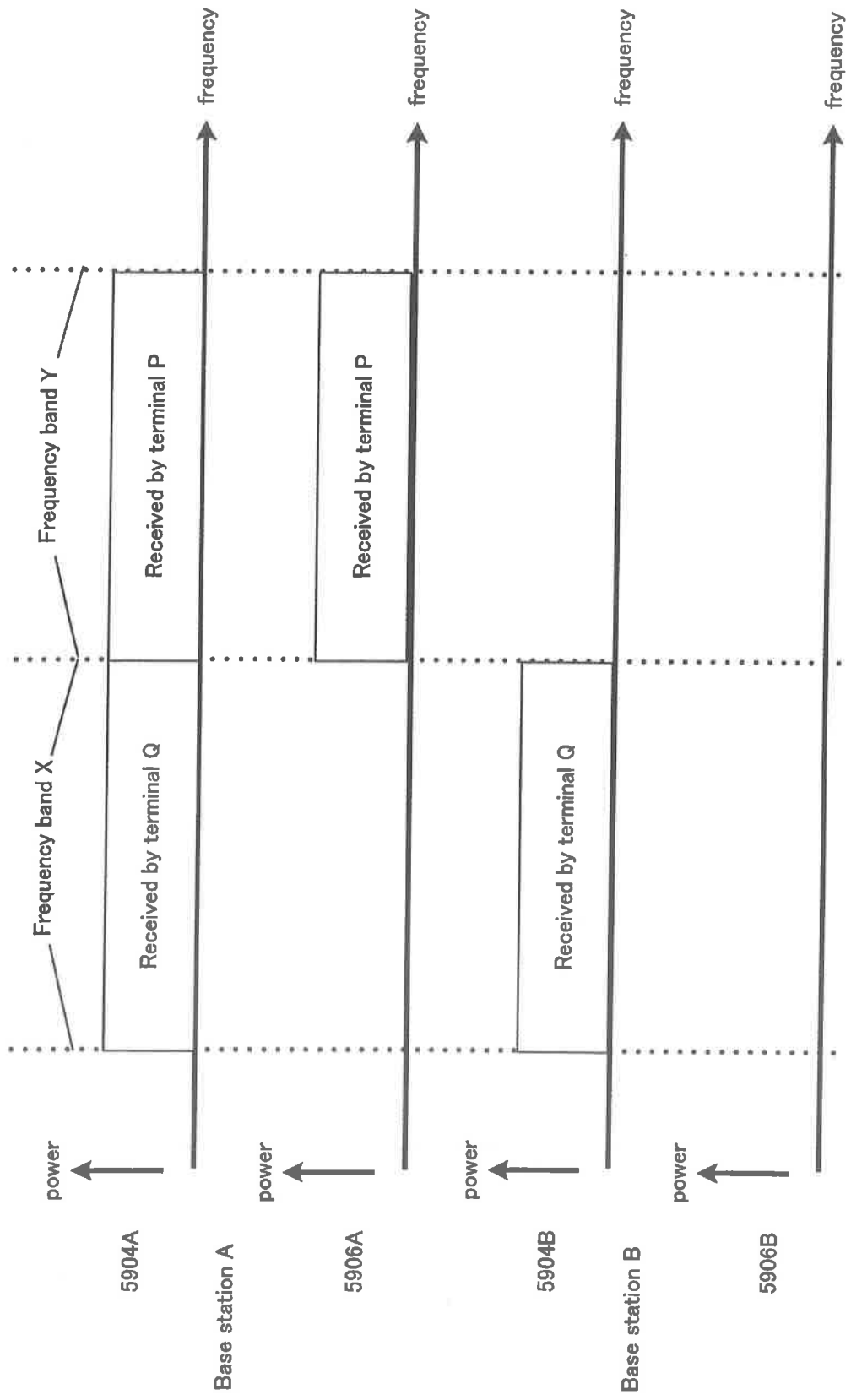


FIG. 61



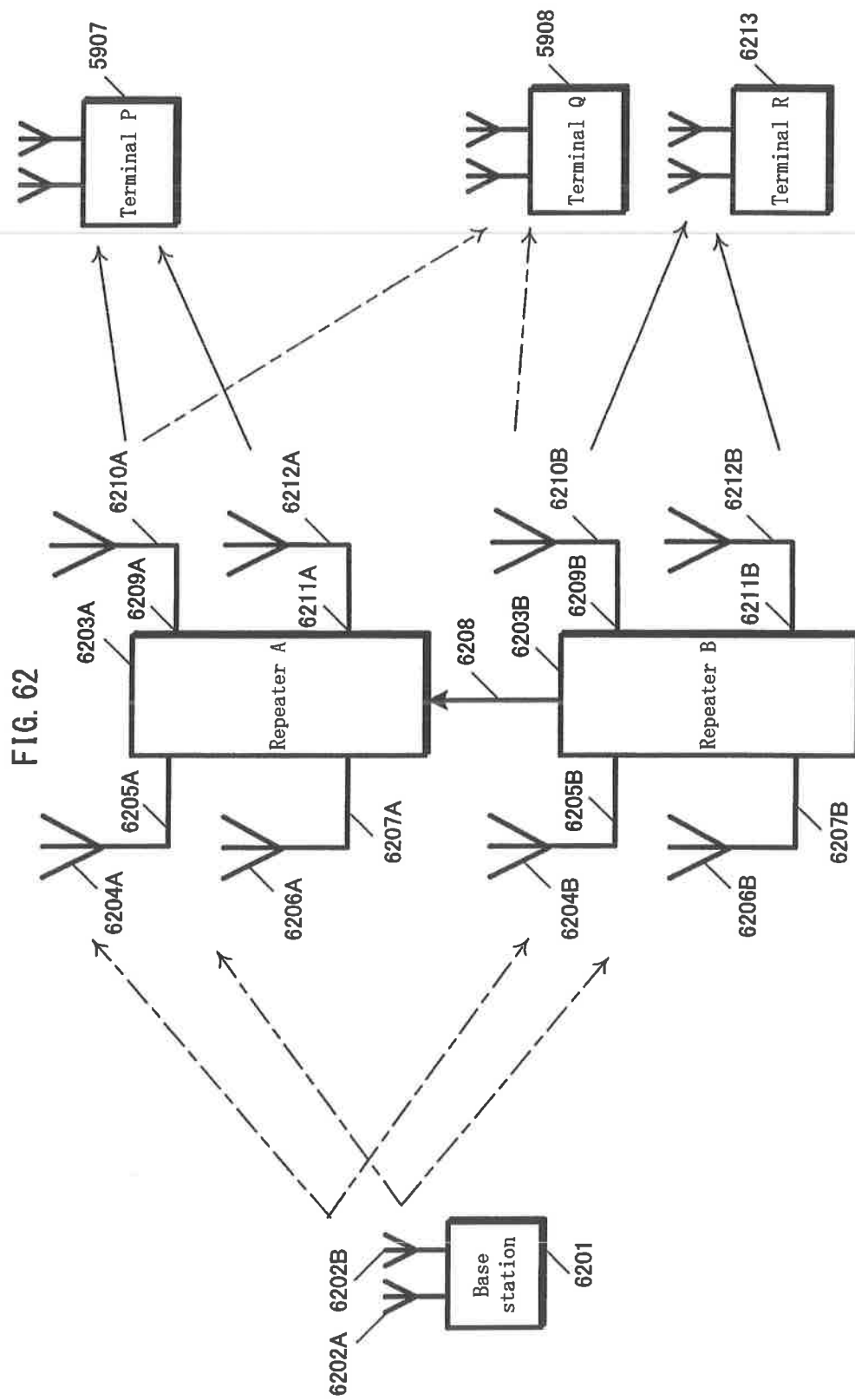


FIG. 63

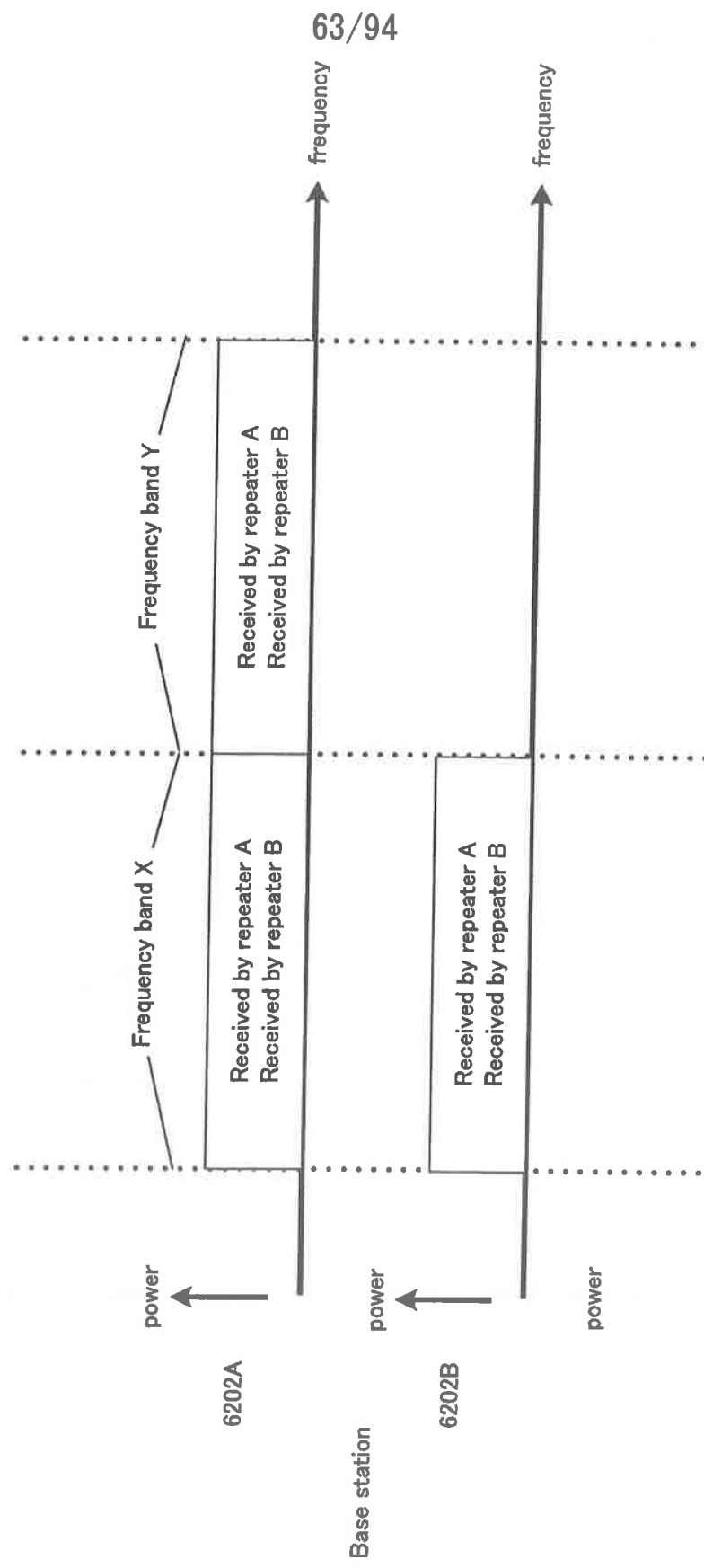


FIG. 64

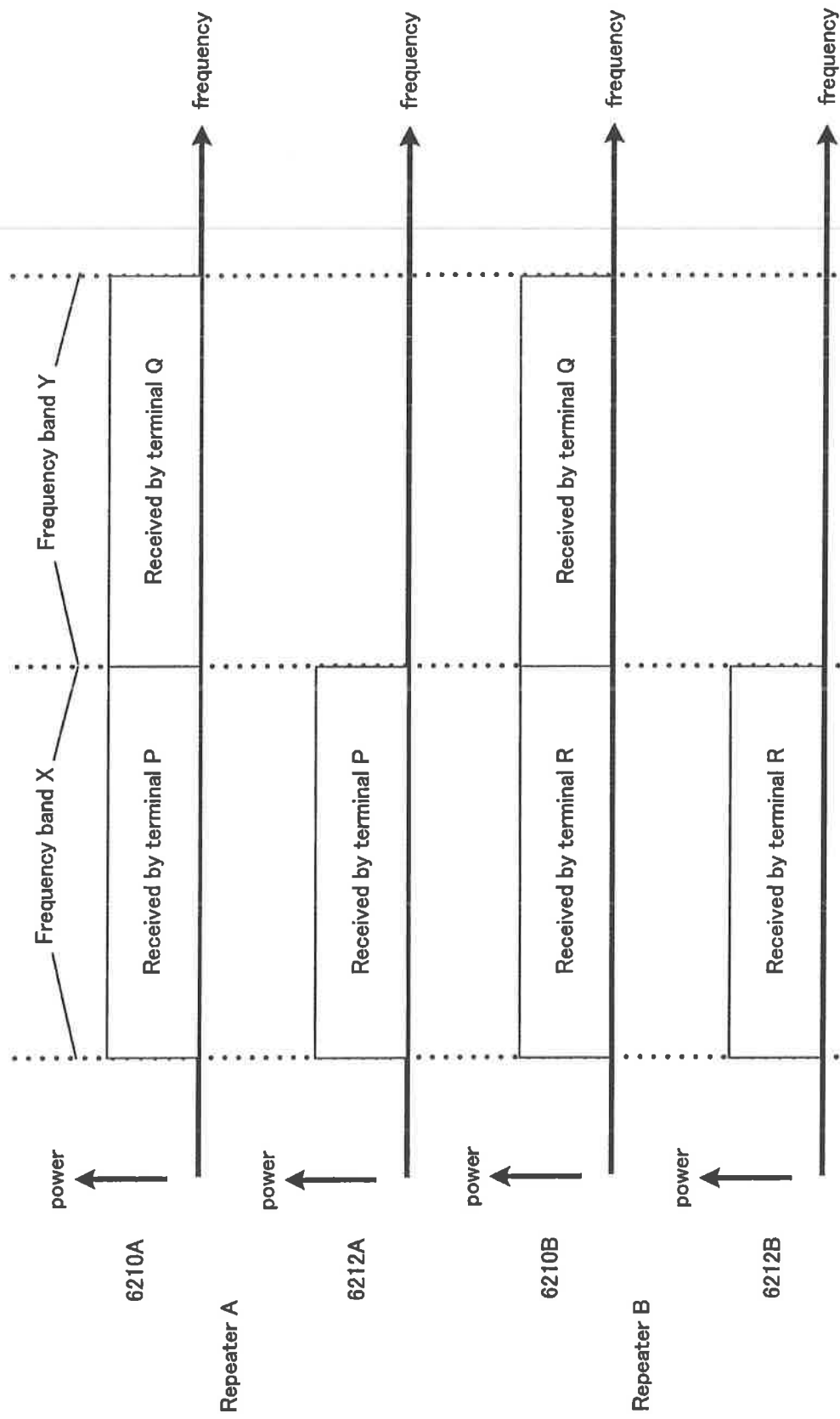


FIG. 65

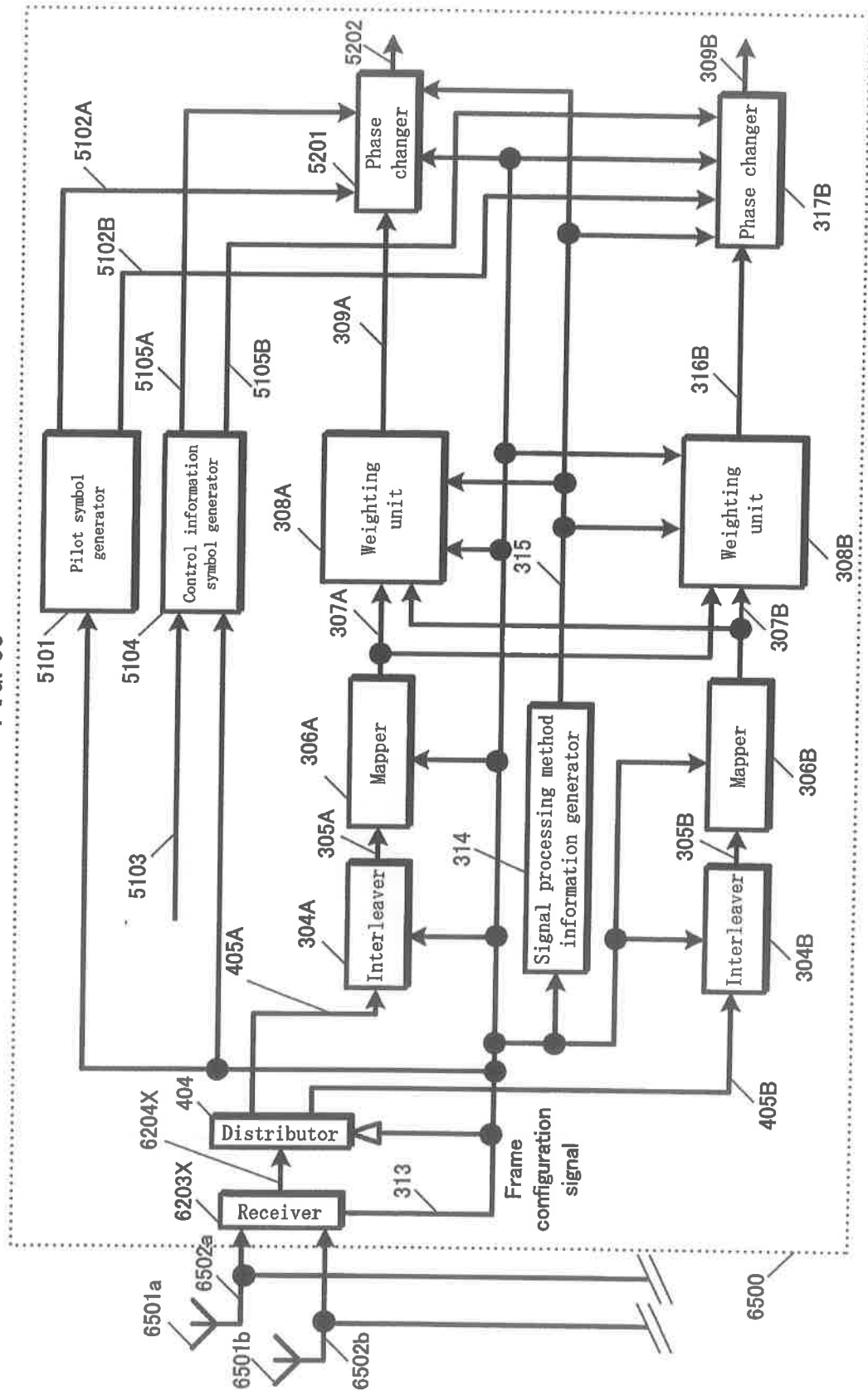


FIG. 66

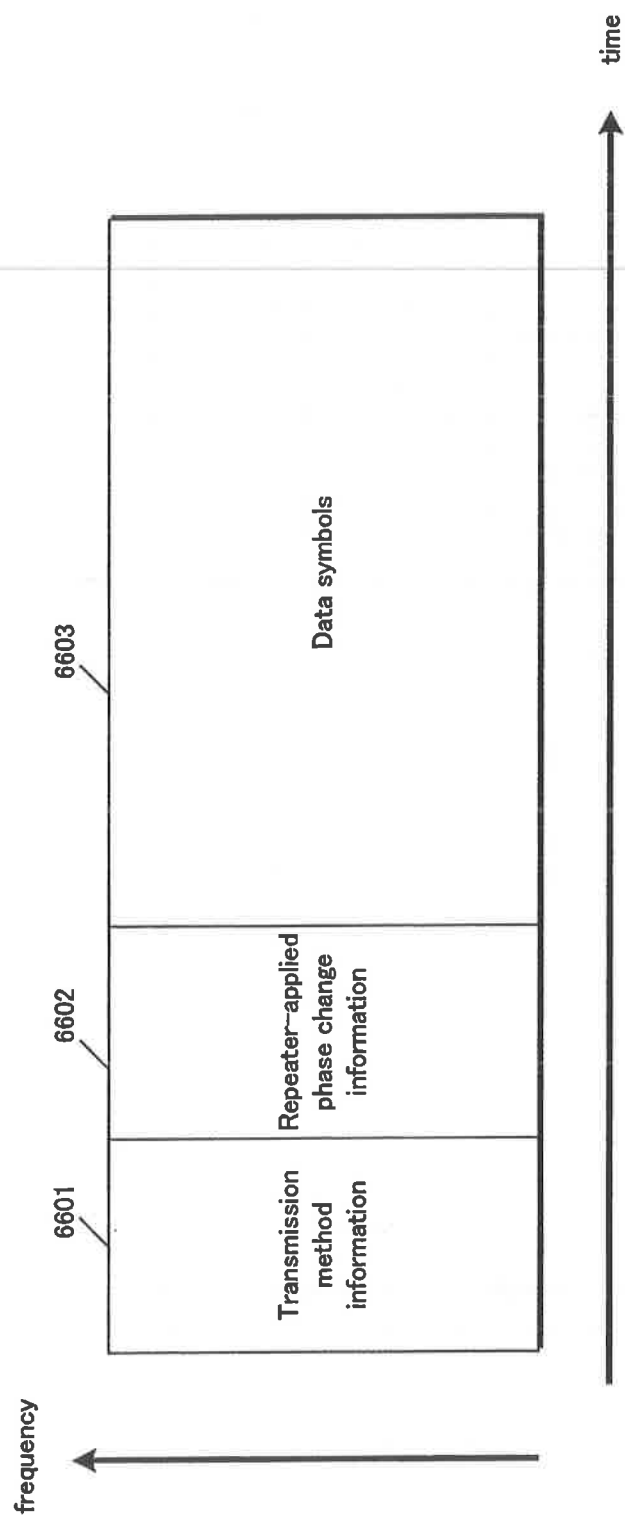


FIG. 67

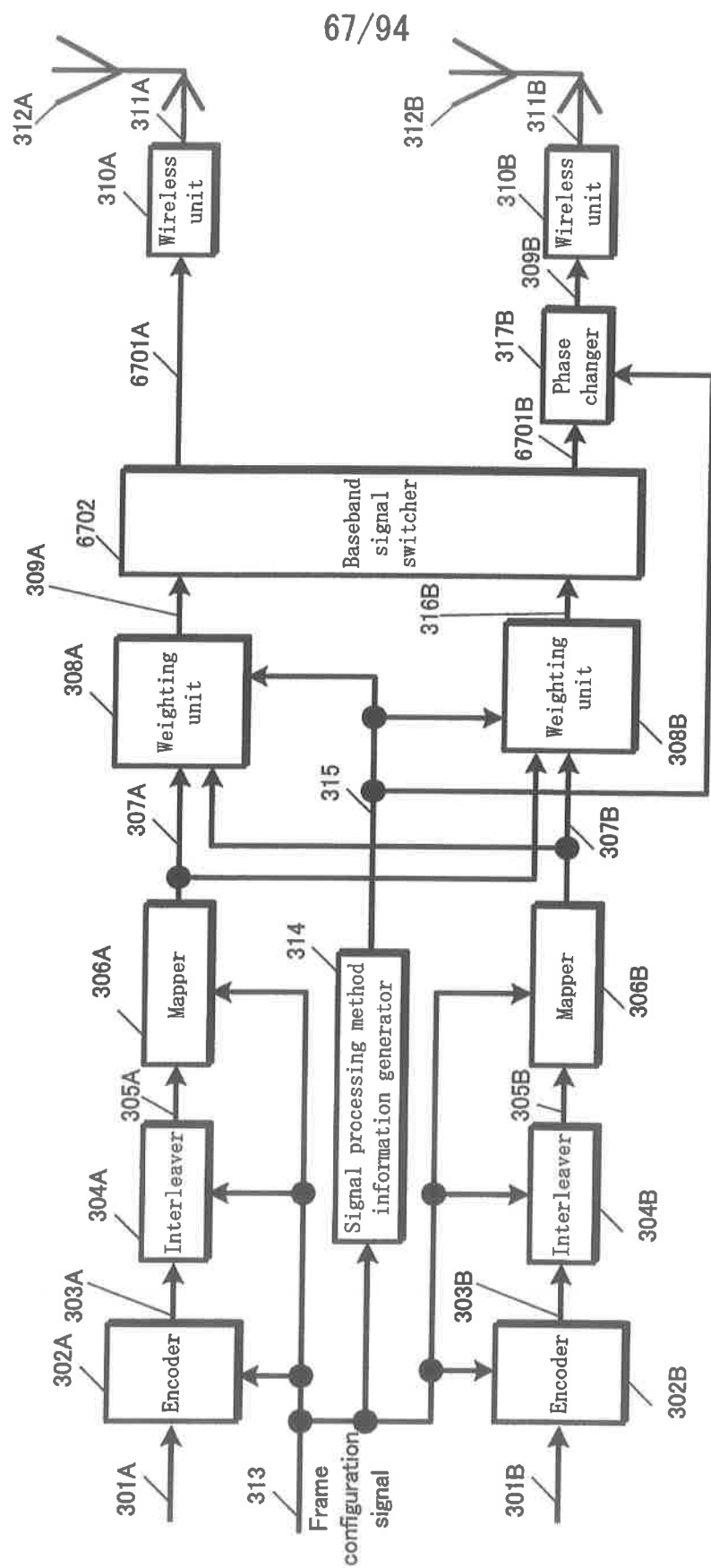


FIG. 68

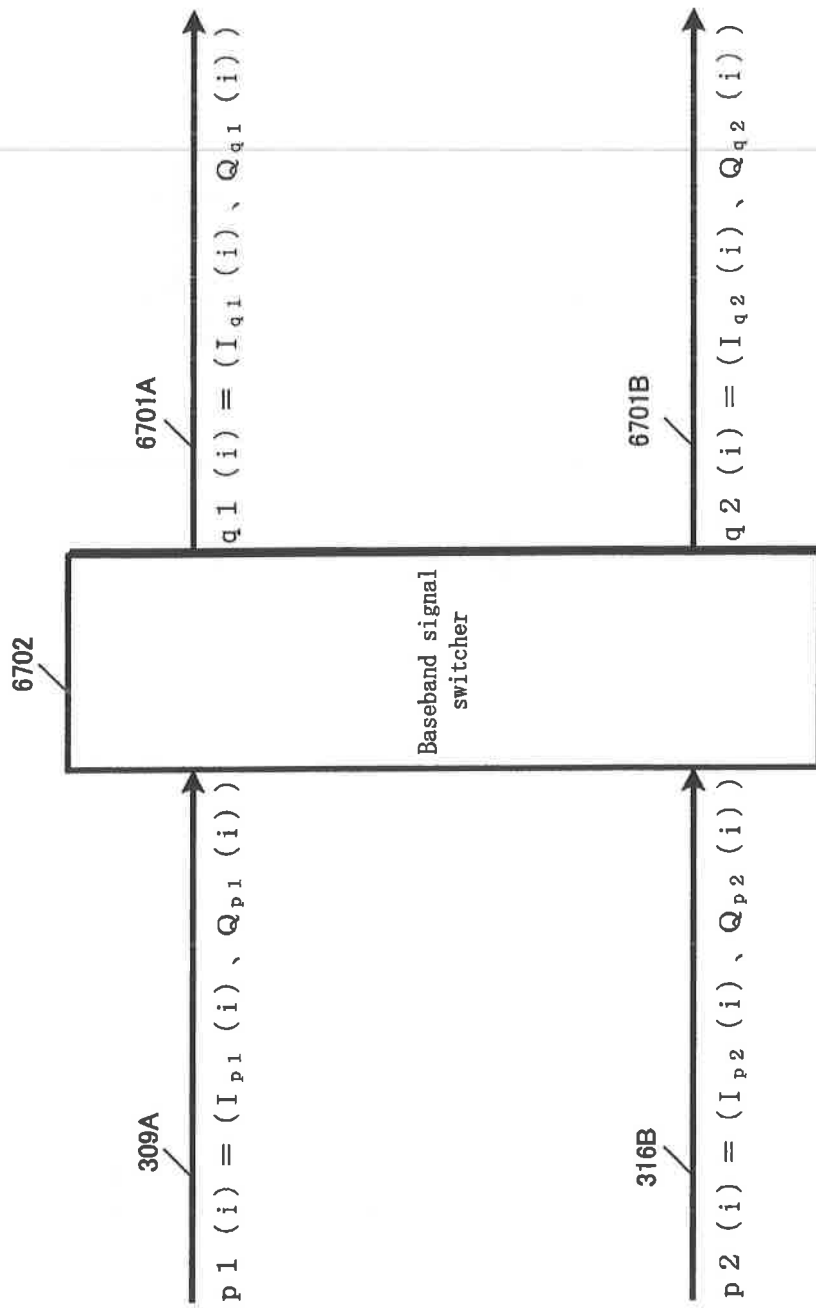
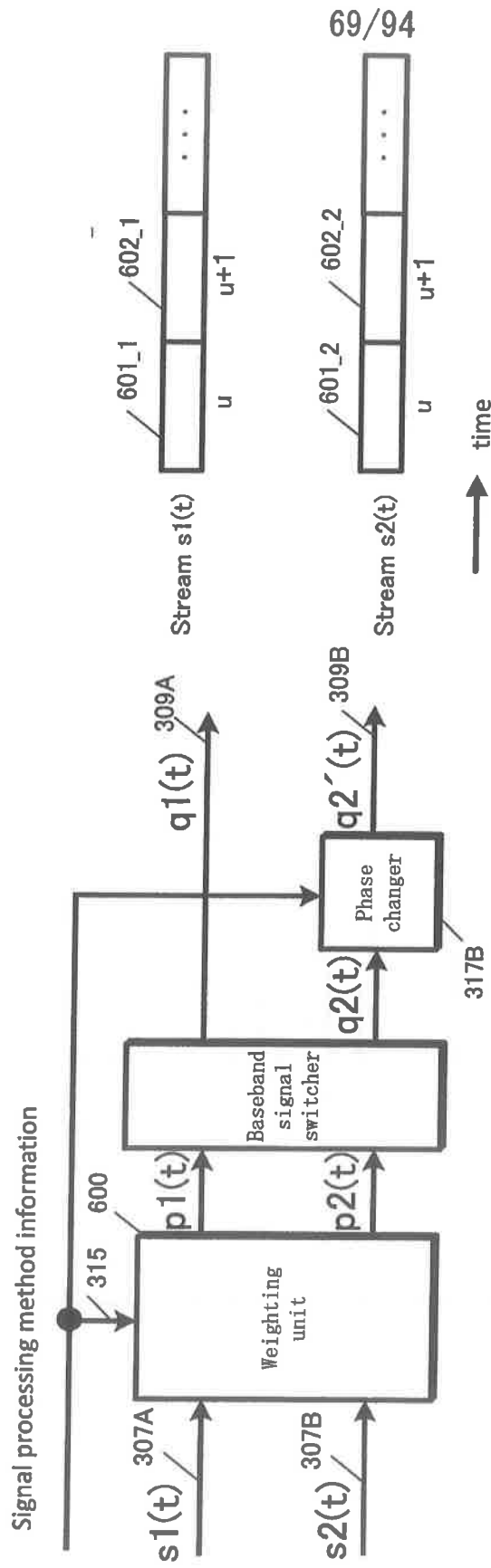


FIG. 69



Sample variations of phase changing formula $y(t)$ used by phase changer

timestamp u	timestamp $u+1$	timestamp $u+2$	timestamp $u+3$	timestamp $u+k$
$y(u) = e^{j0}$	$y(u+1) = e^{j\frac{\pi}{2}}$	$y(u+2) = e^{j\pi}$	$y(u+3) = e^{j\frac{3\pi}{2}}$	$y(u+k) = e^{j\frac{k\pi}{2}}$
				...

FIG. 70

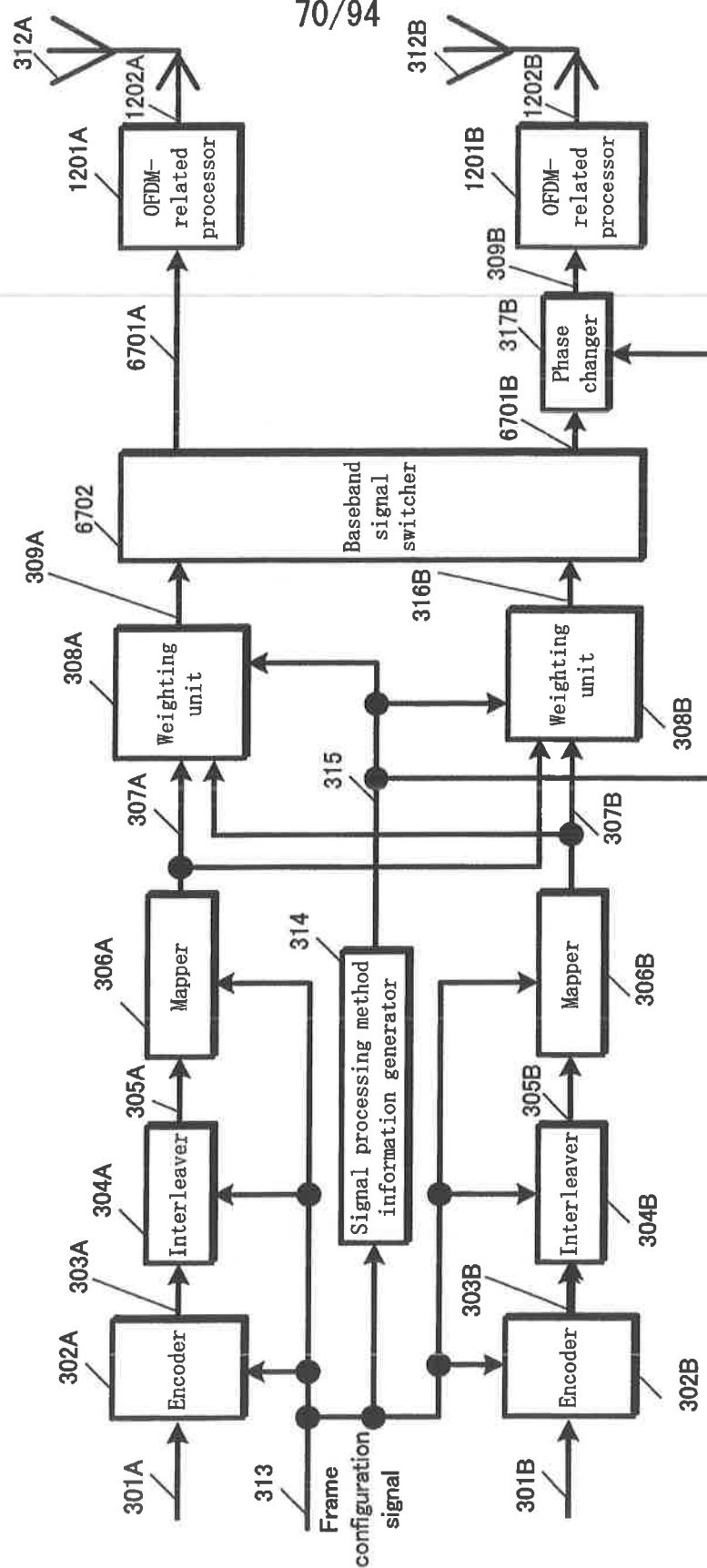


FIG. 71

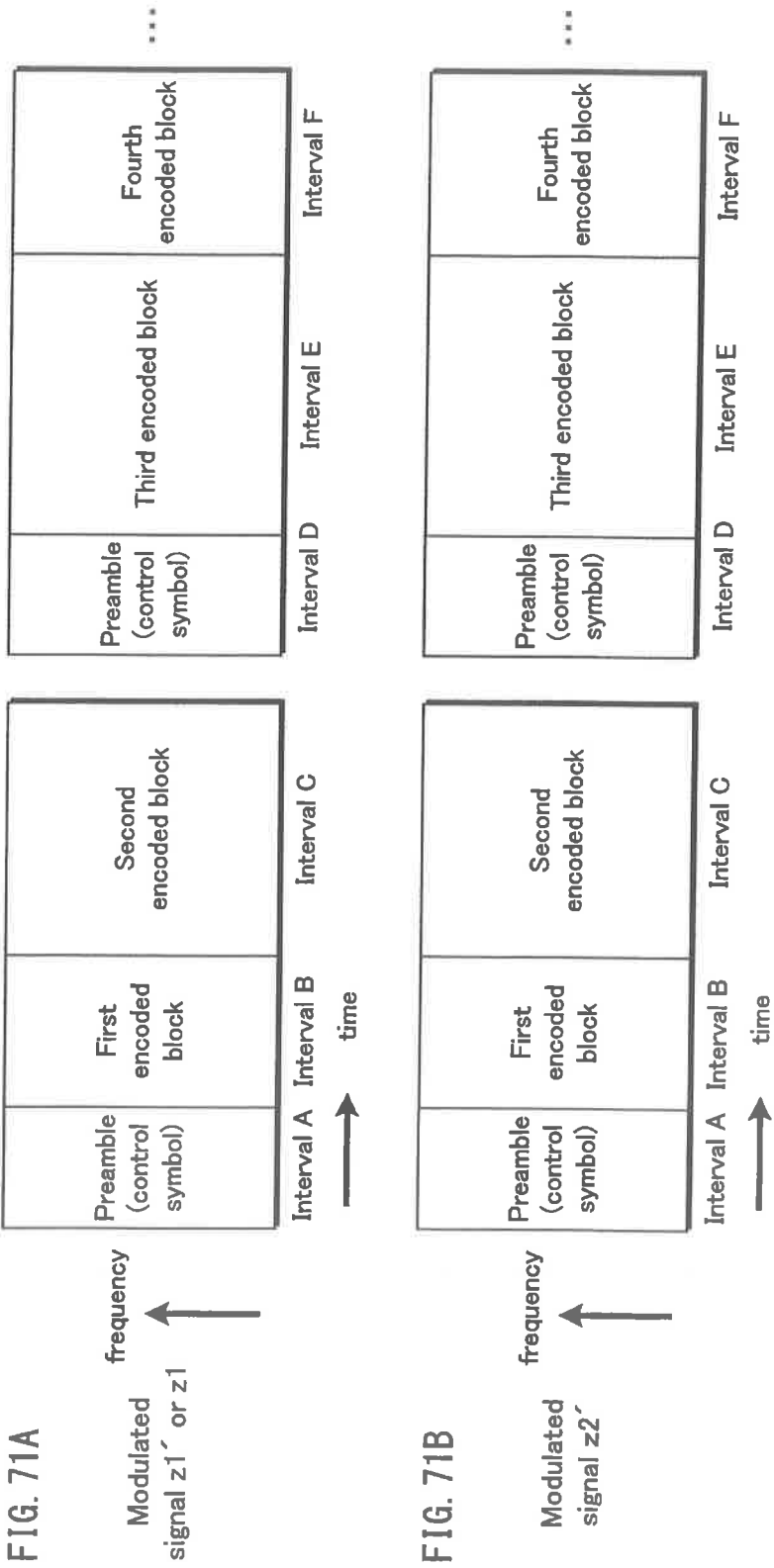
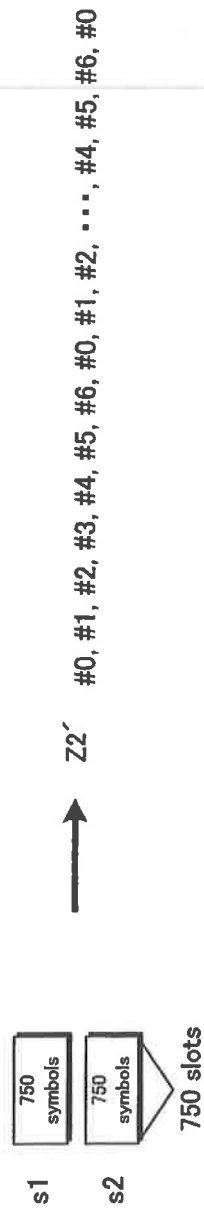


FIG. 72

First encoded block

16-QAM



Second encoded block

QPSK

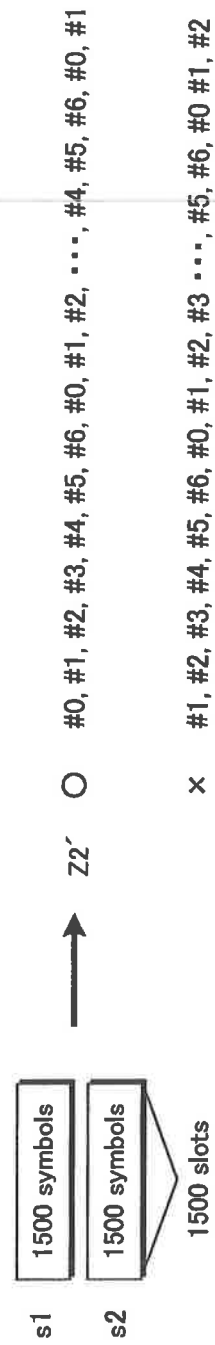


FIG. 73

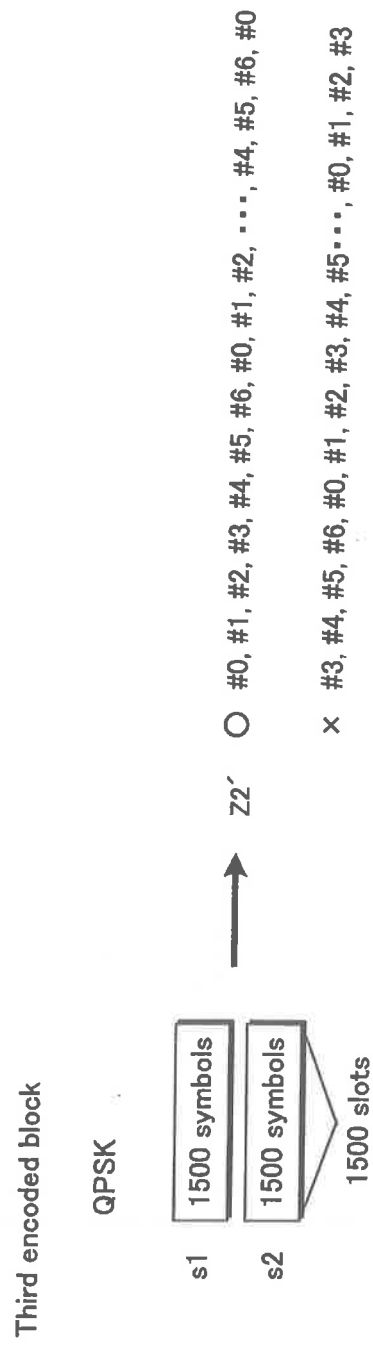


FIG. 74

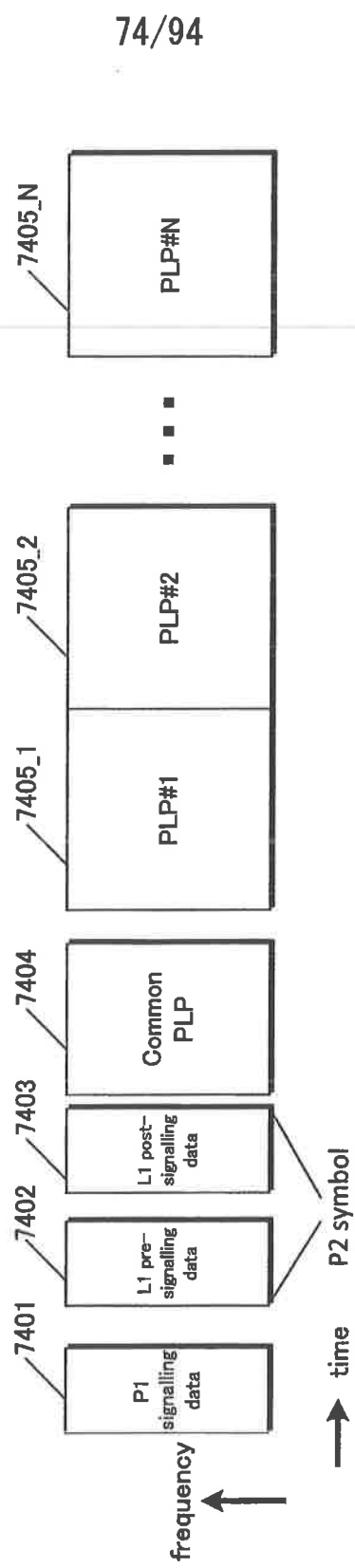


FIG. 75

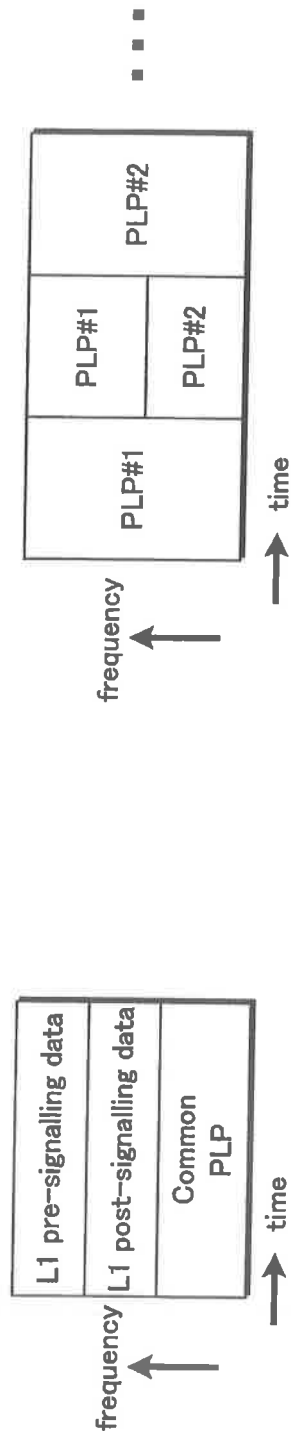


FIG. 76

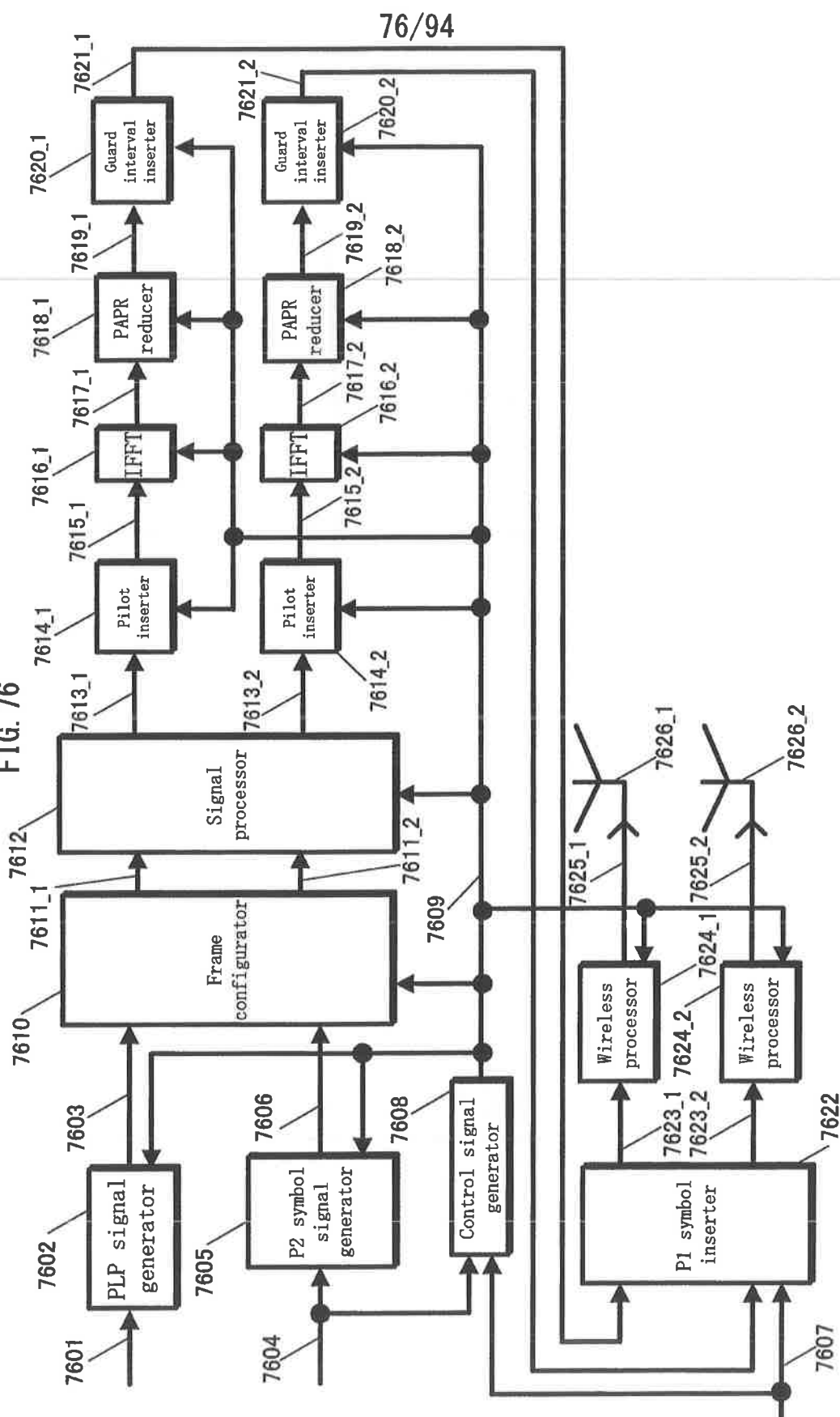


FIG. 77

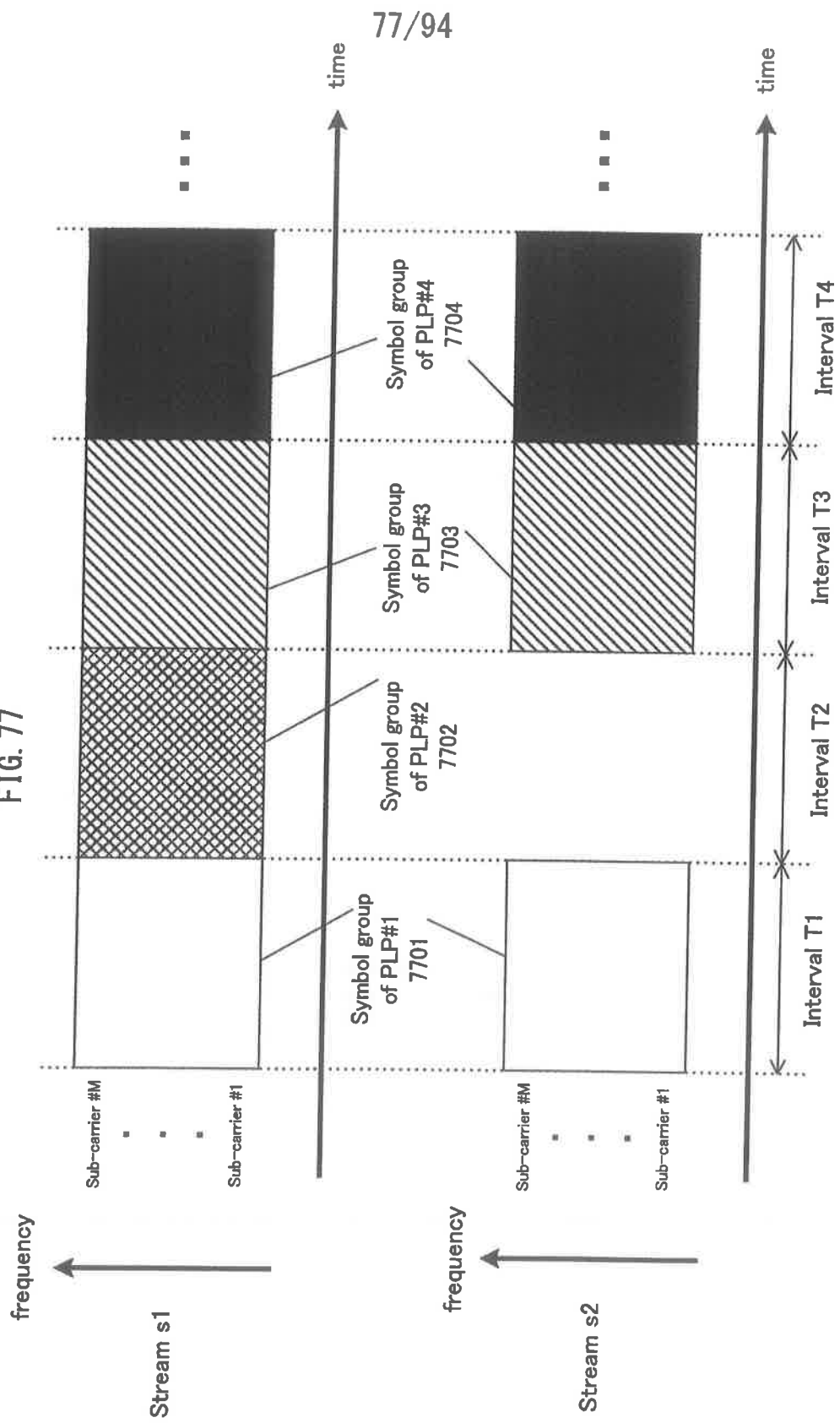


FIG. 78

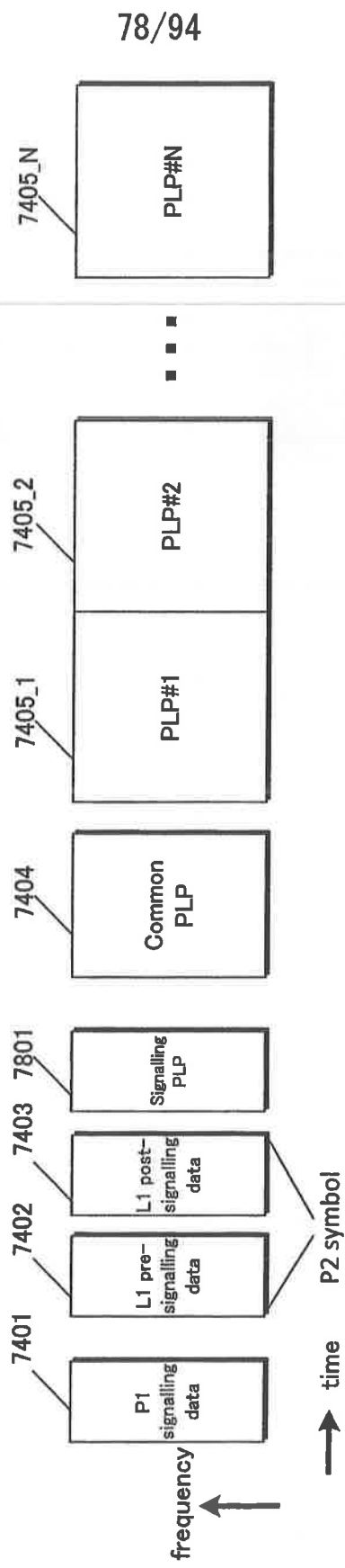


FIG. 79

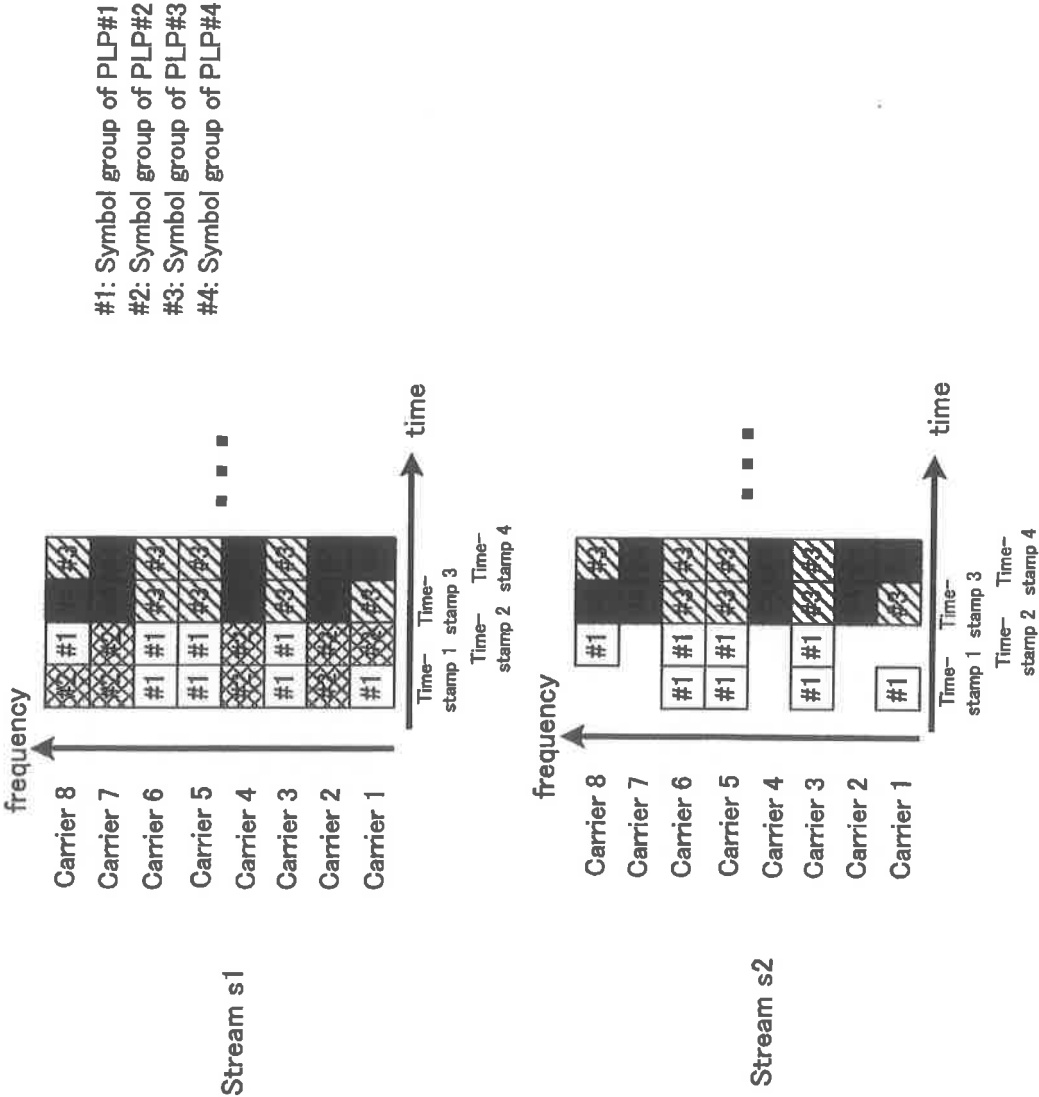


FIG. 80

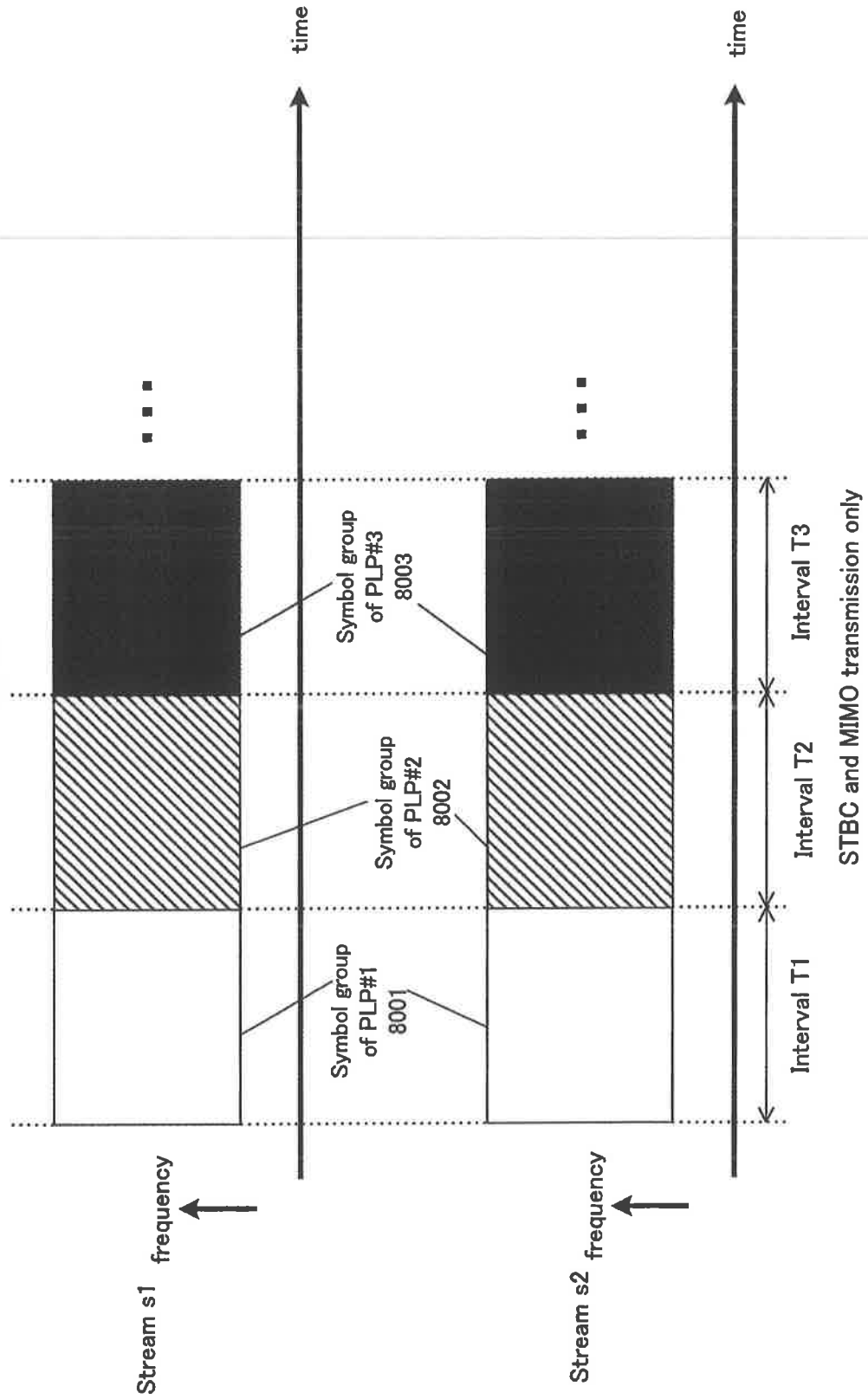


FIG. 81

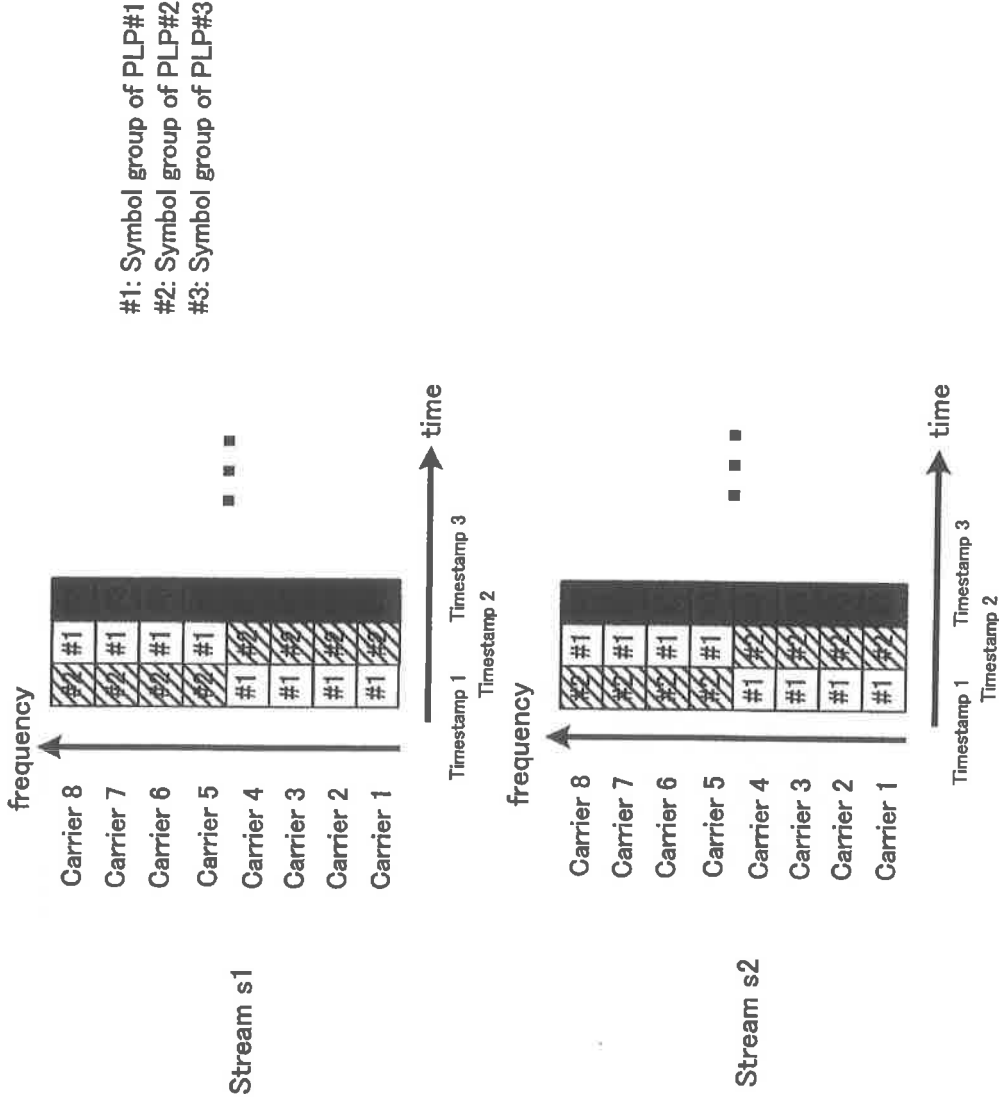


FIG. 82

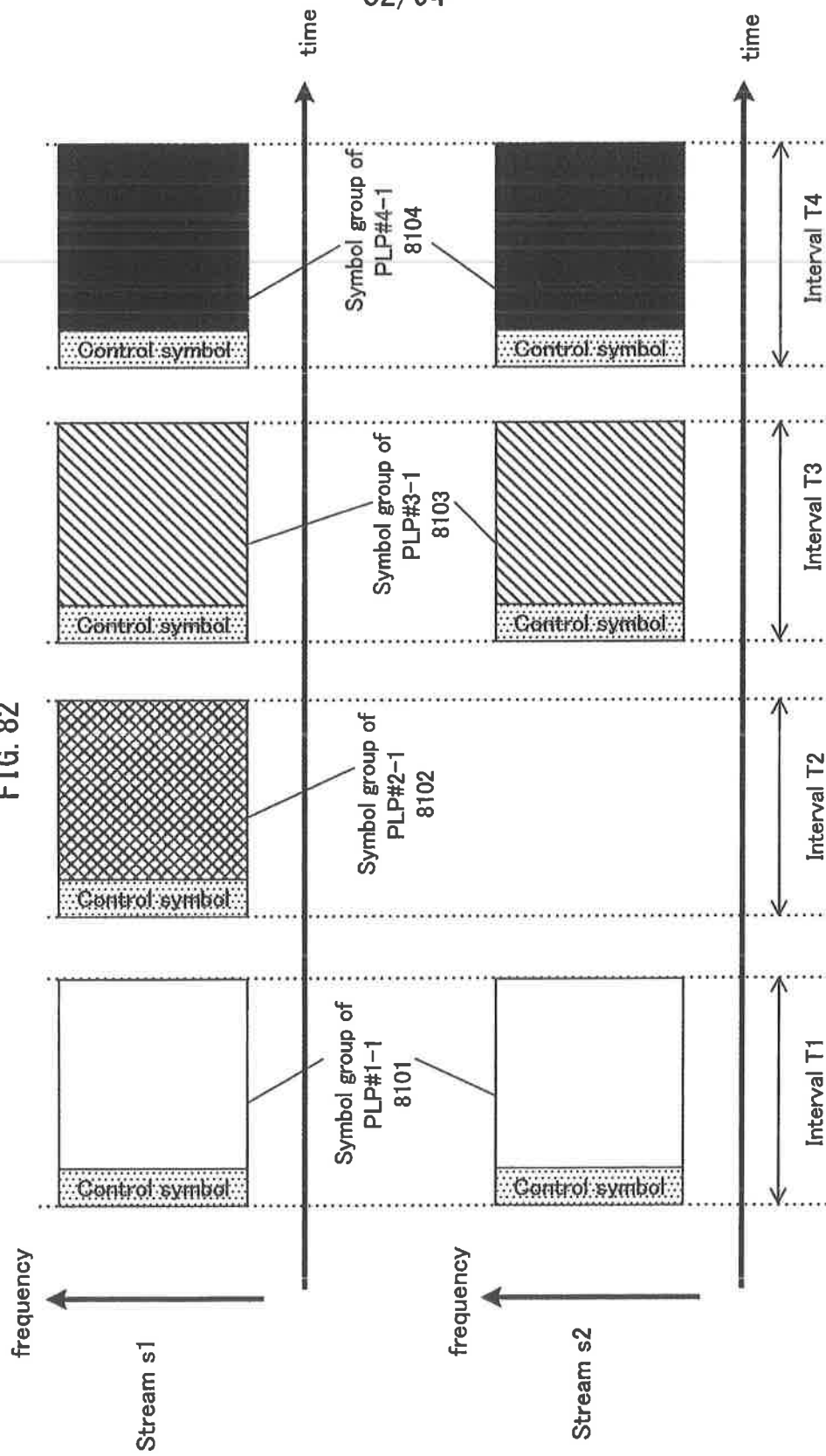


FIG. 83

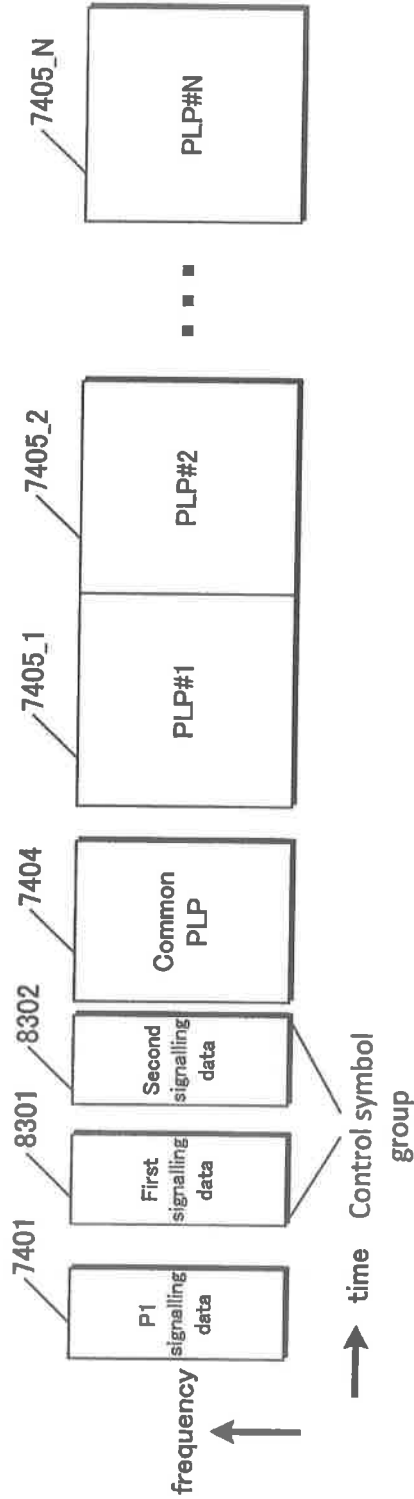


FIG. 84

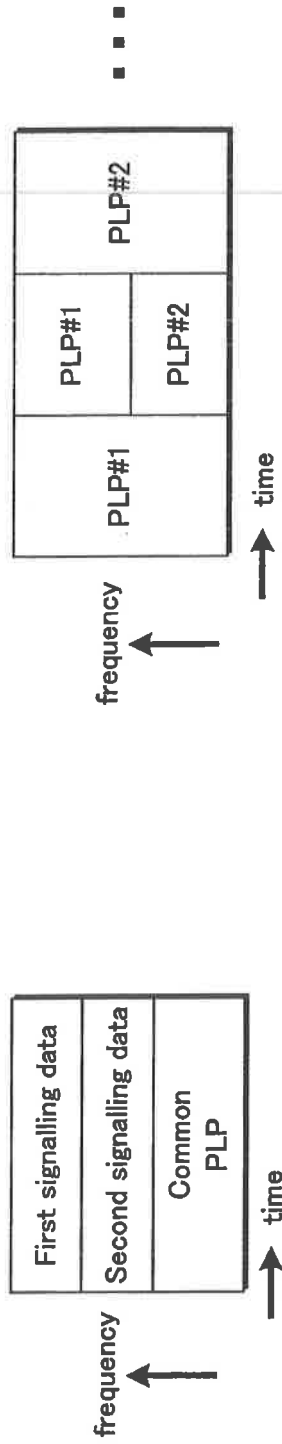
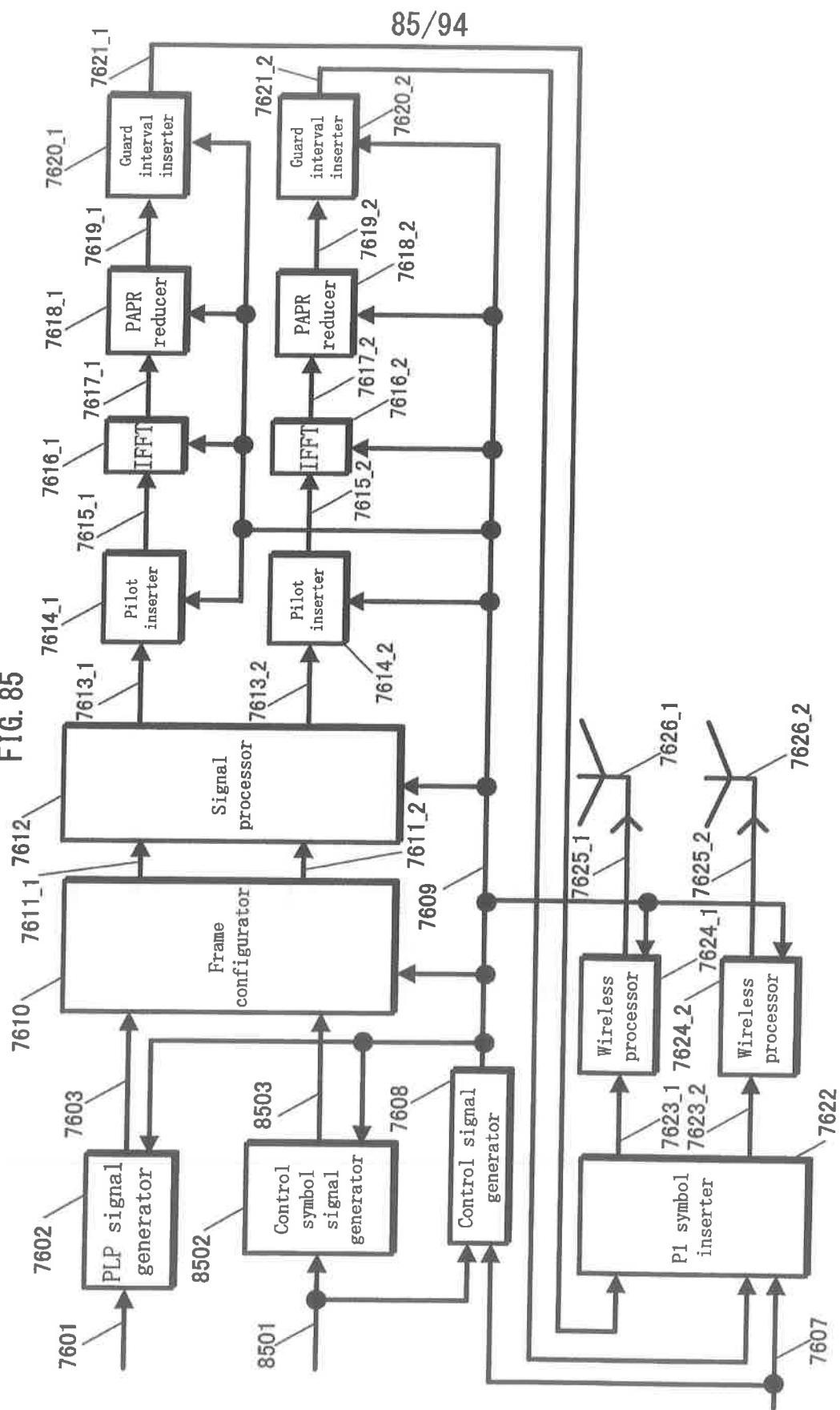


FIG. 85



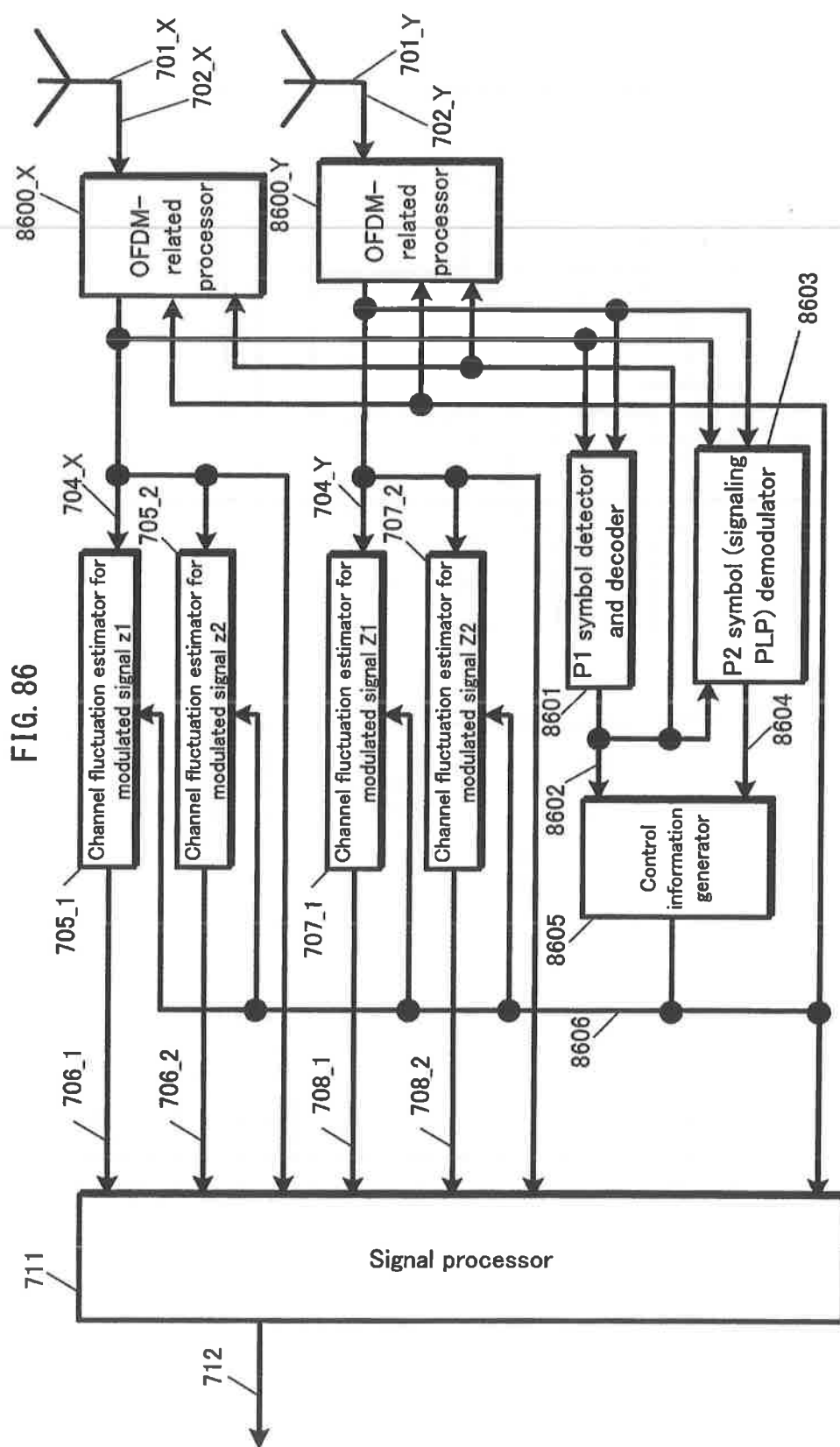


FIG. 87

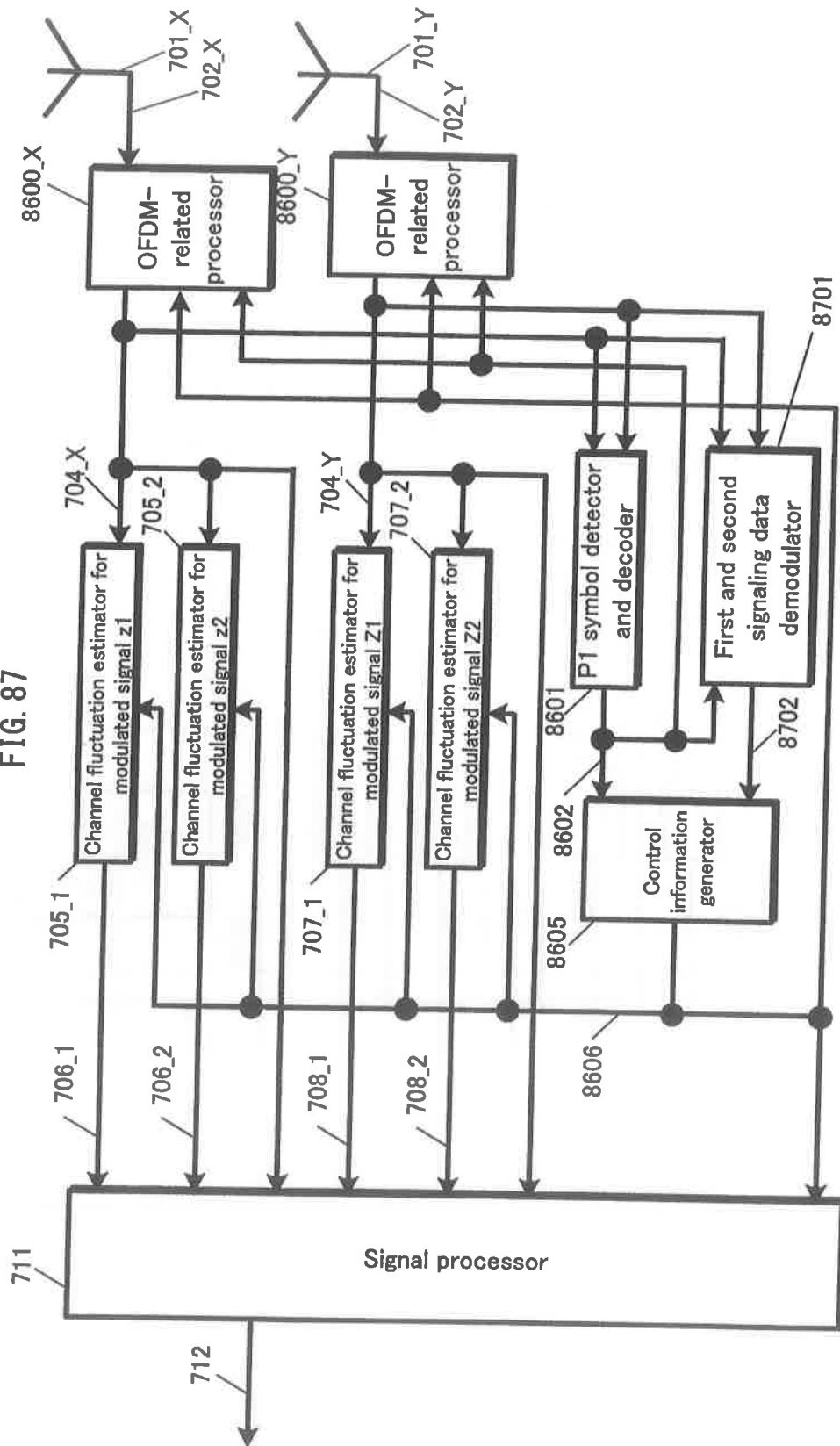


FIG. 88

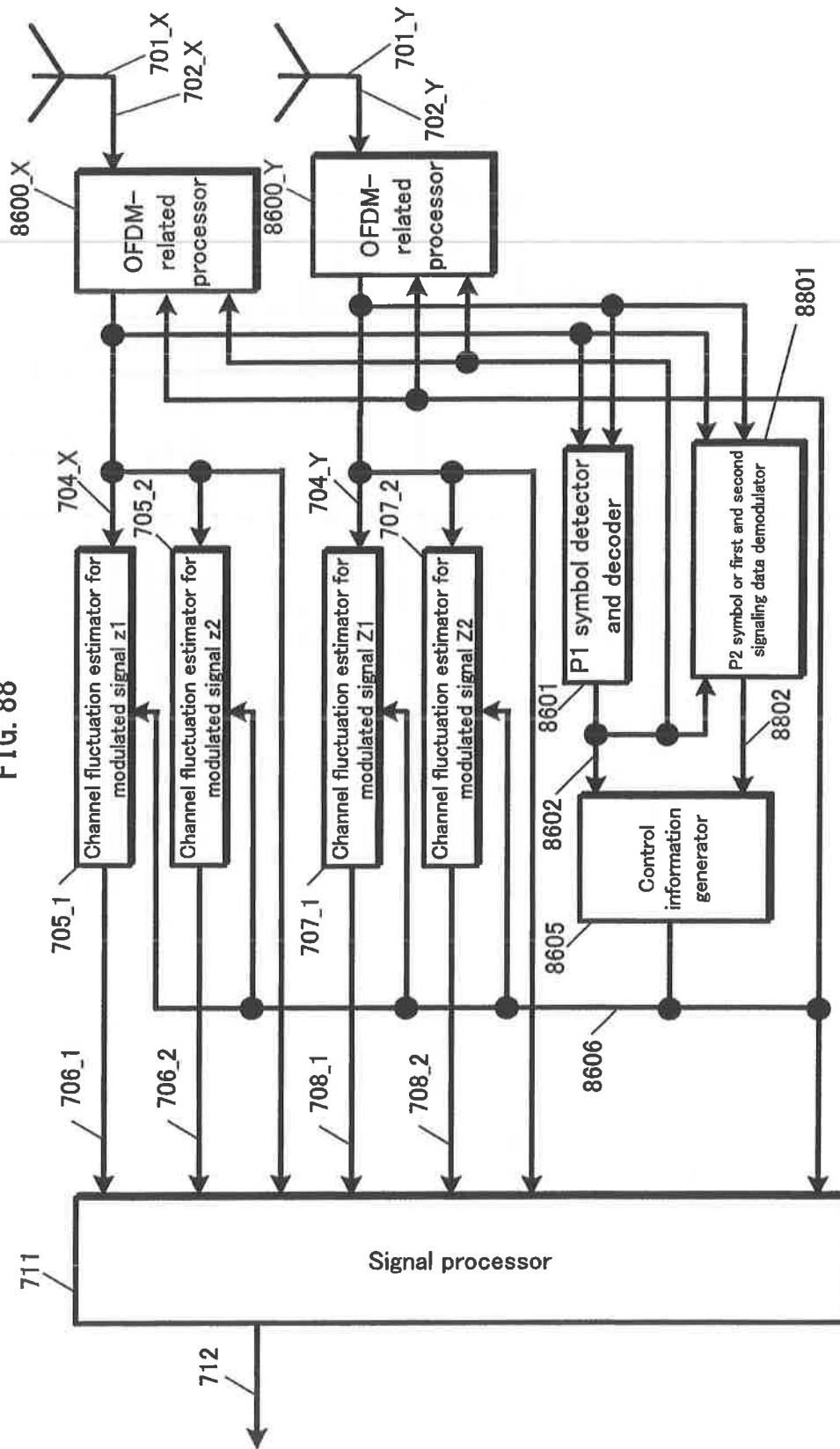


FIG. 89A

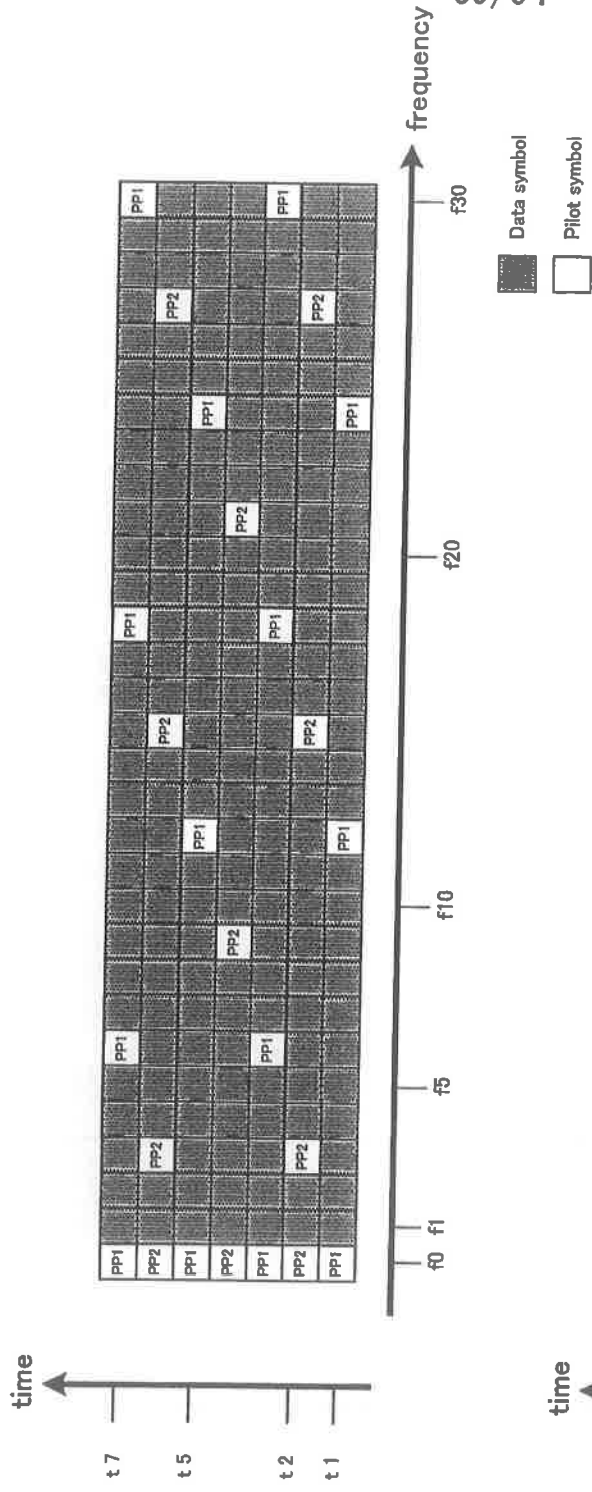


FIG. 89B

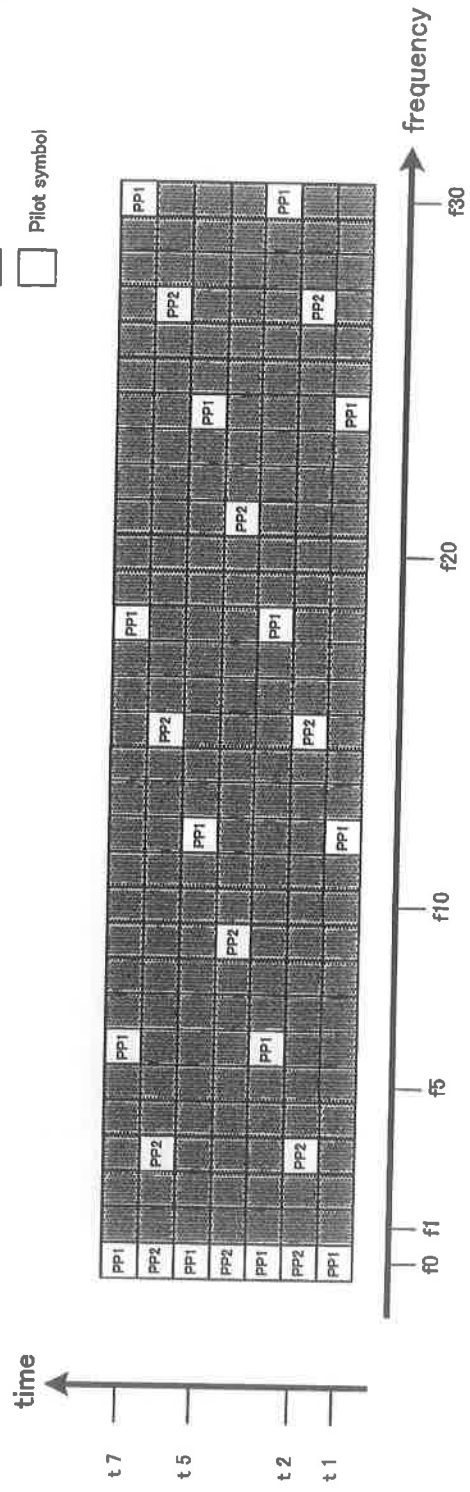


FIG. 90A

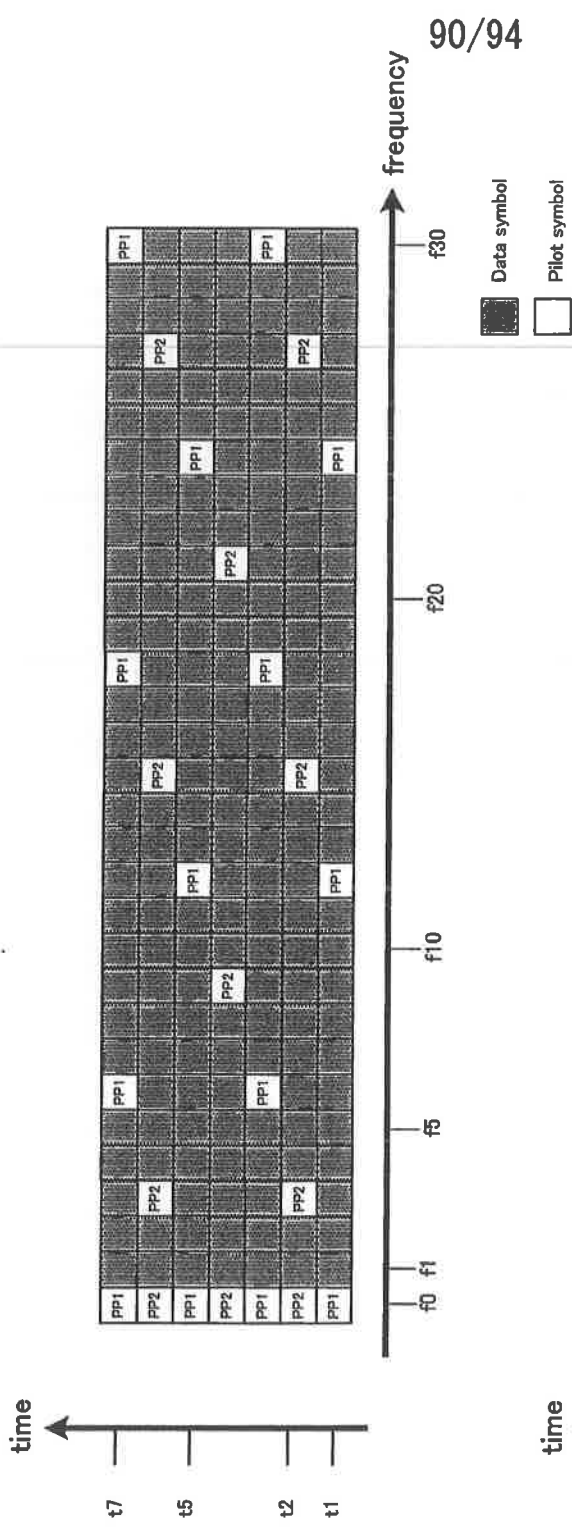


FIG. 90B

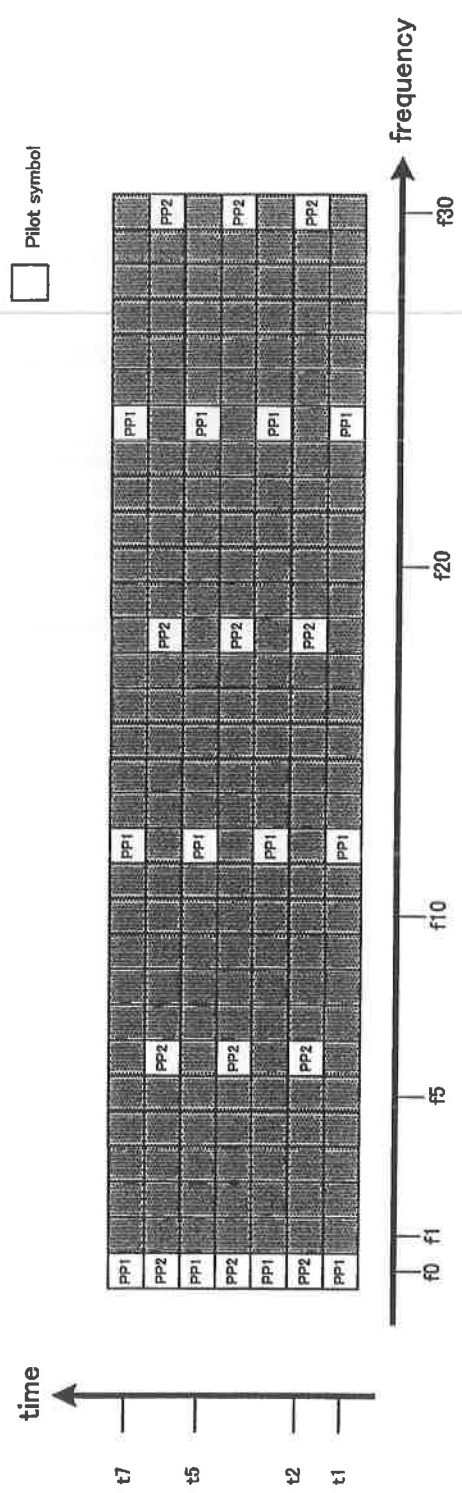
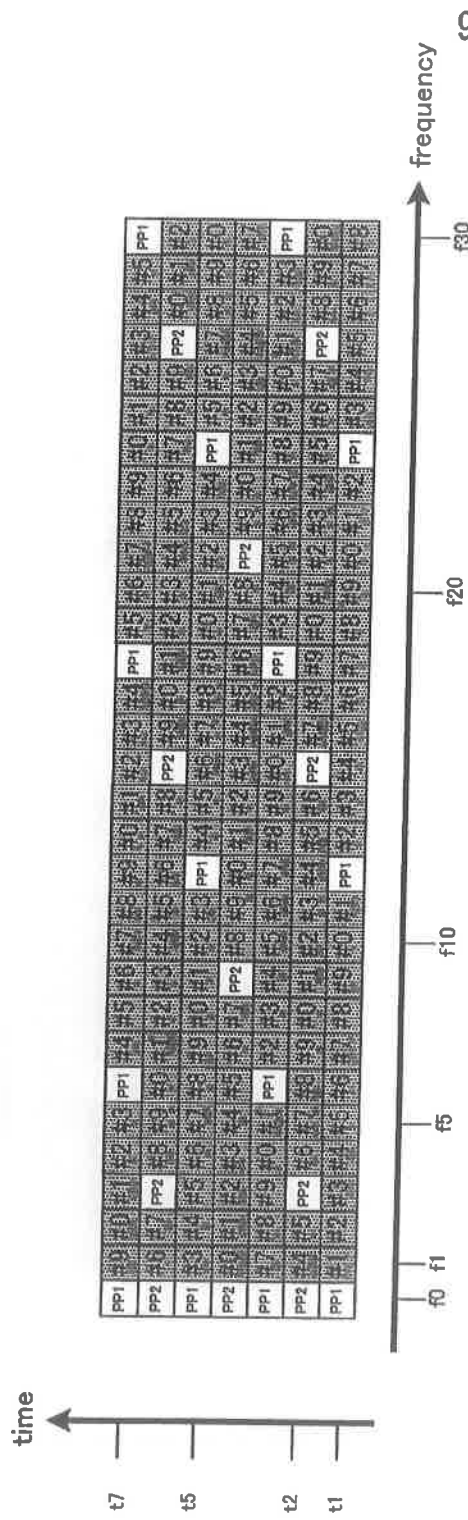


FIG. 91A



91/94

FIG. 91B

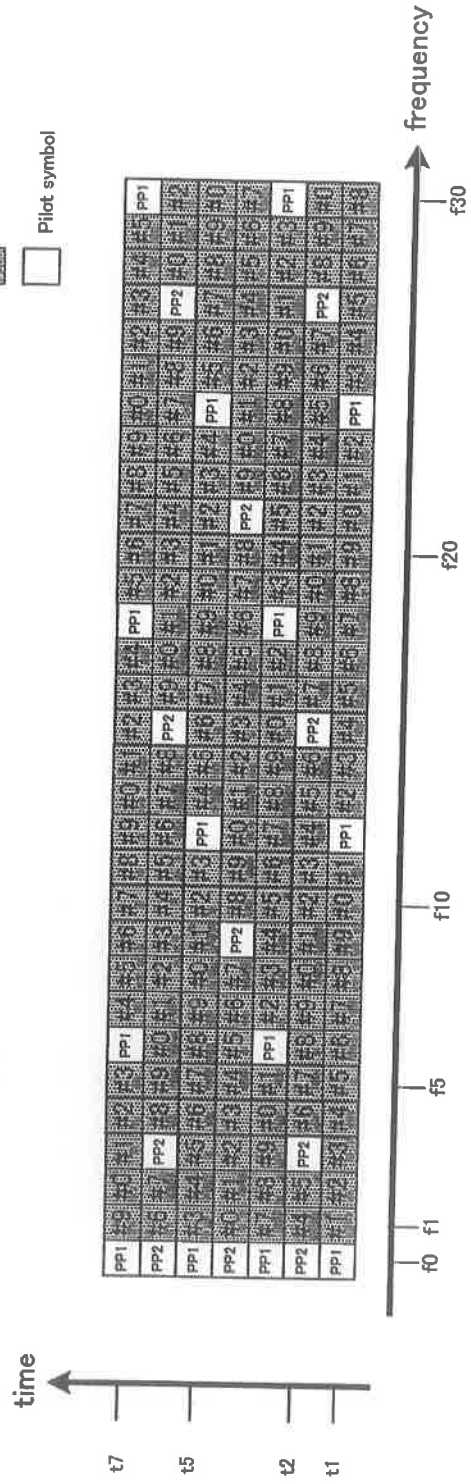


FIG. 92A

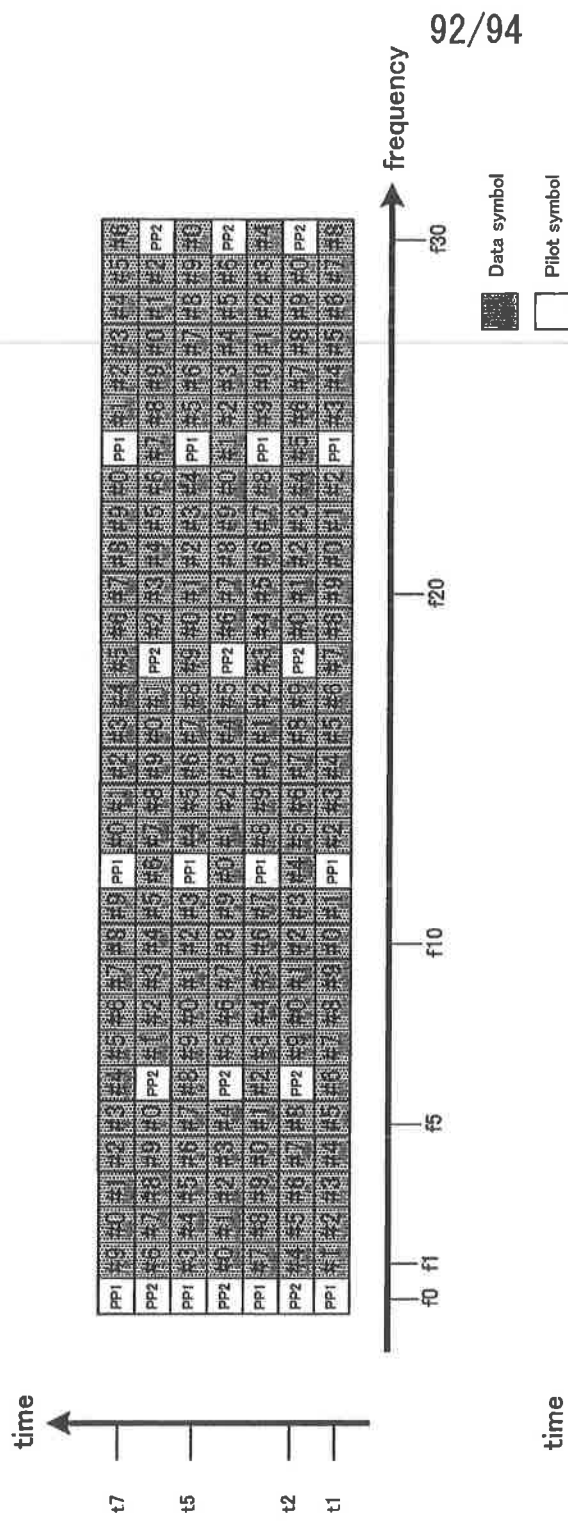


FIG. 92B

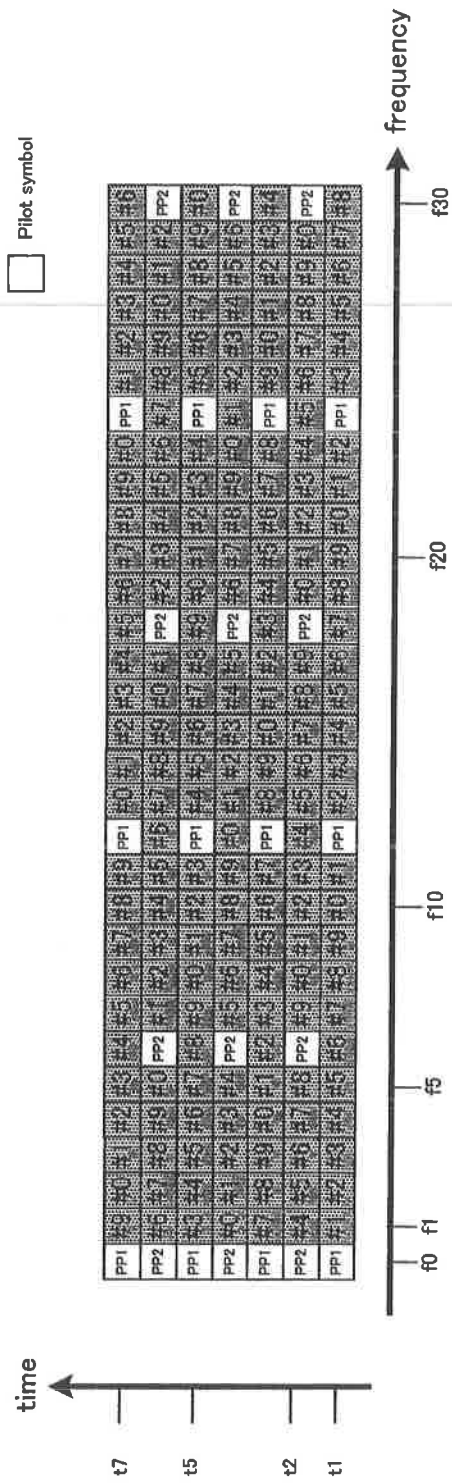


FIG. 93A

Modulated
signal z1

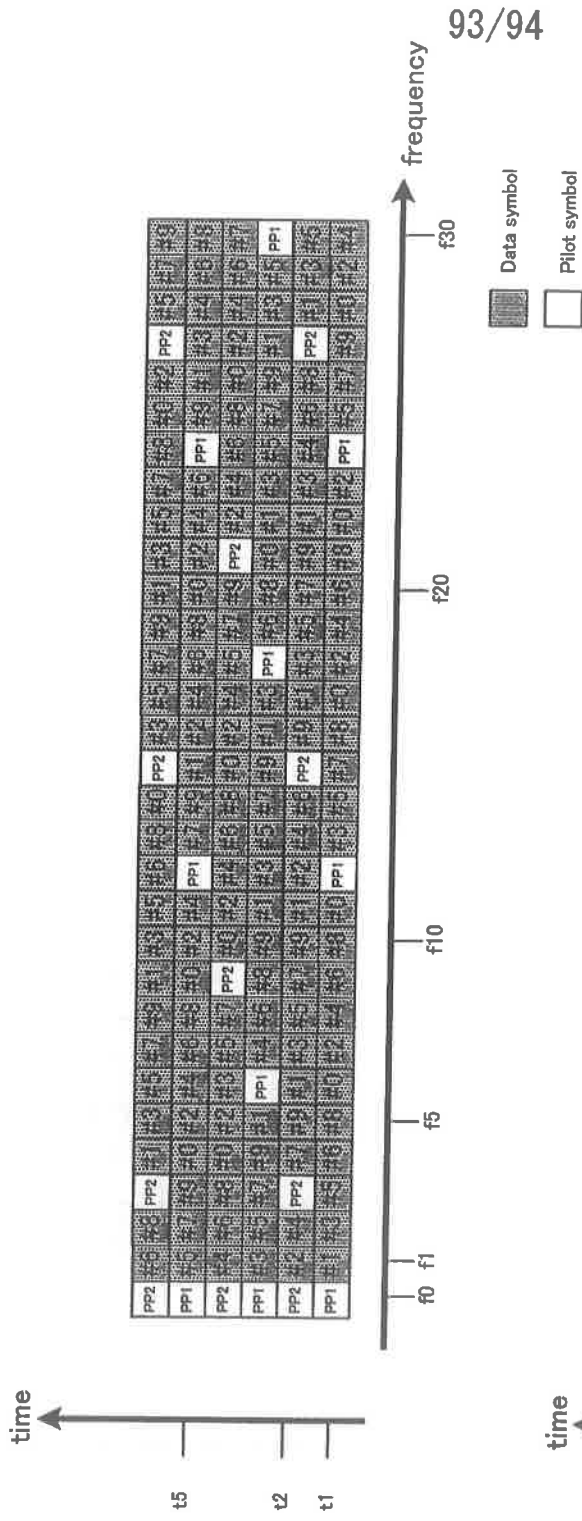


FIG. 93B

Modulated
signal z2

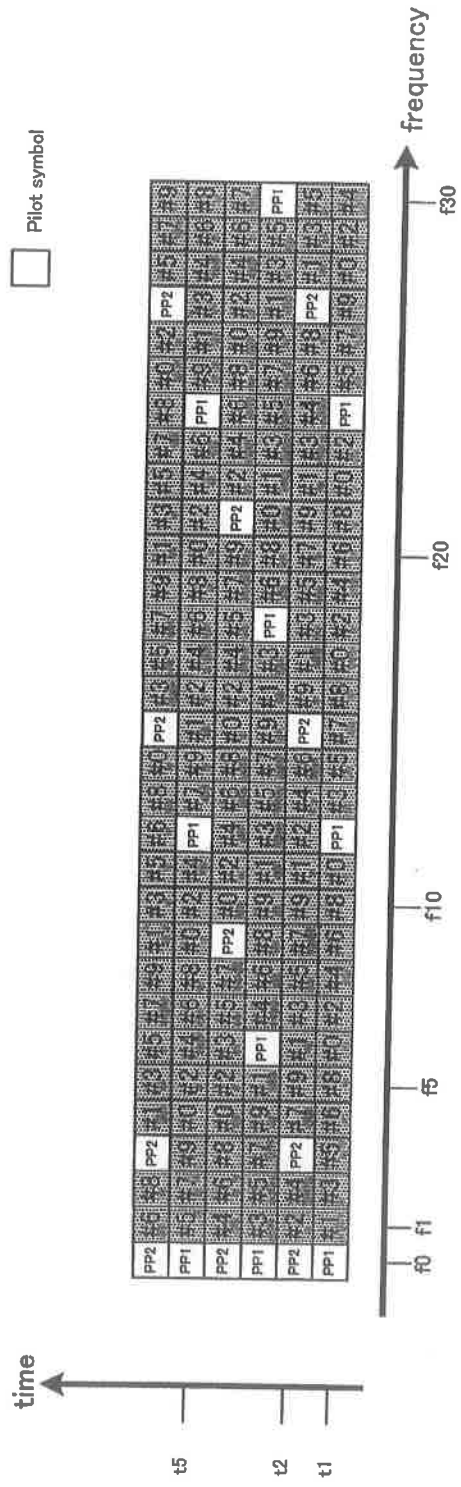


FIG. 94

