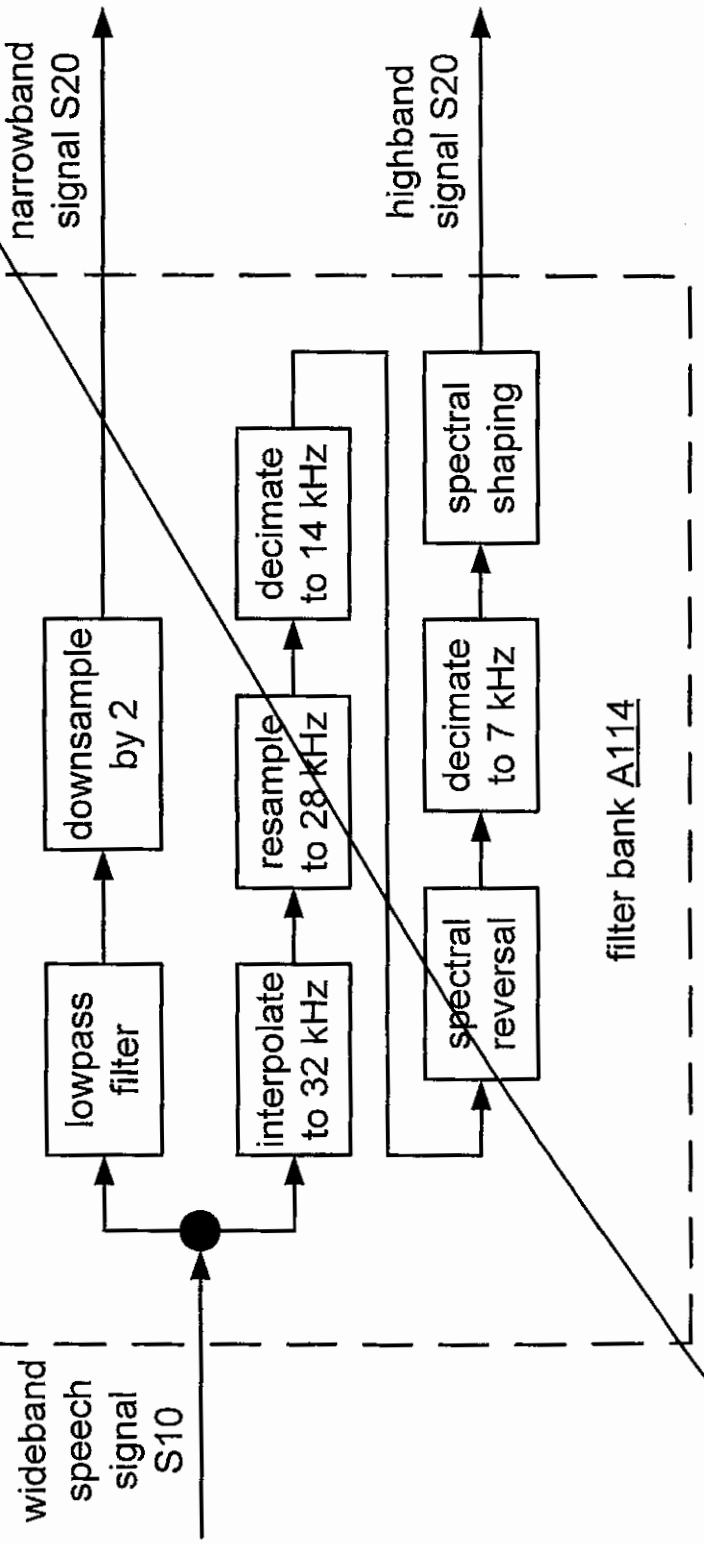

wideband speech signal S10
lowpass filter
downsample by 2
narrowband signal S20
interpolate to 32 kHz
resample to 28 kHz
decimate to 14 kHz
spectral reversal
decimate to 7 kHz
spectral shaping
highband signal S20
filter bank A114

FIG. 4c

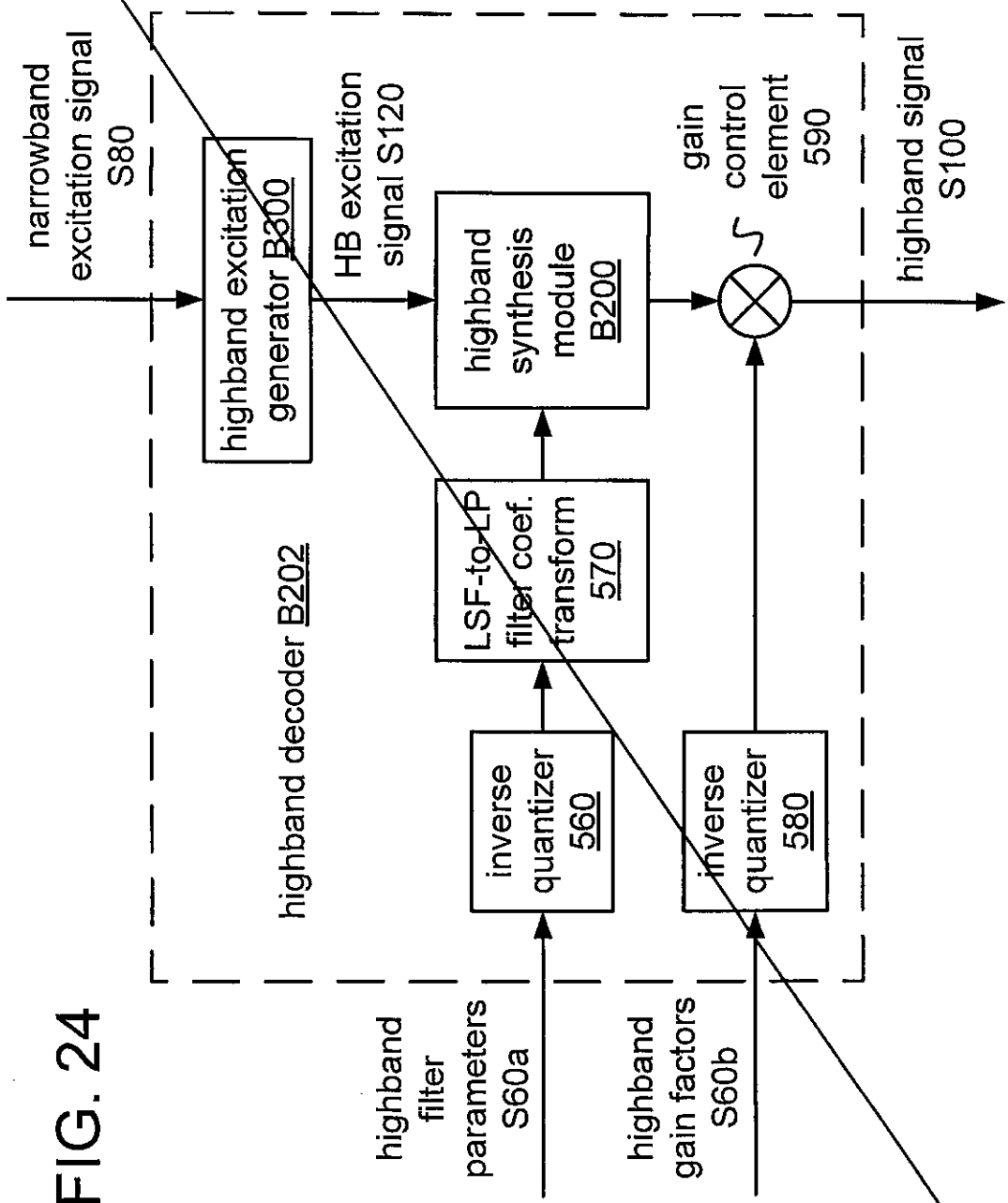

narrowband excitation signal S80
highband excitation generator B300
HB excitation signal S120
highband synthesis module B200
gain control element 590
highband signal S100
highband decoder B202
LSF-to-LP filter coef. transform 570
inverse quantizer 560
inverse quantizer 580
highband filter parameters S60a
highband gain factors S60b

FIG. 24

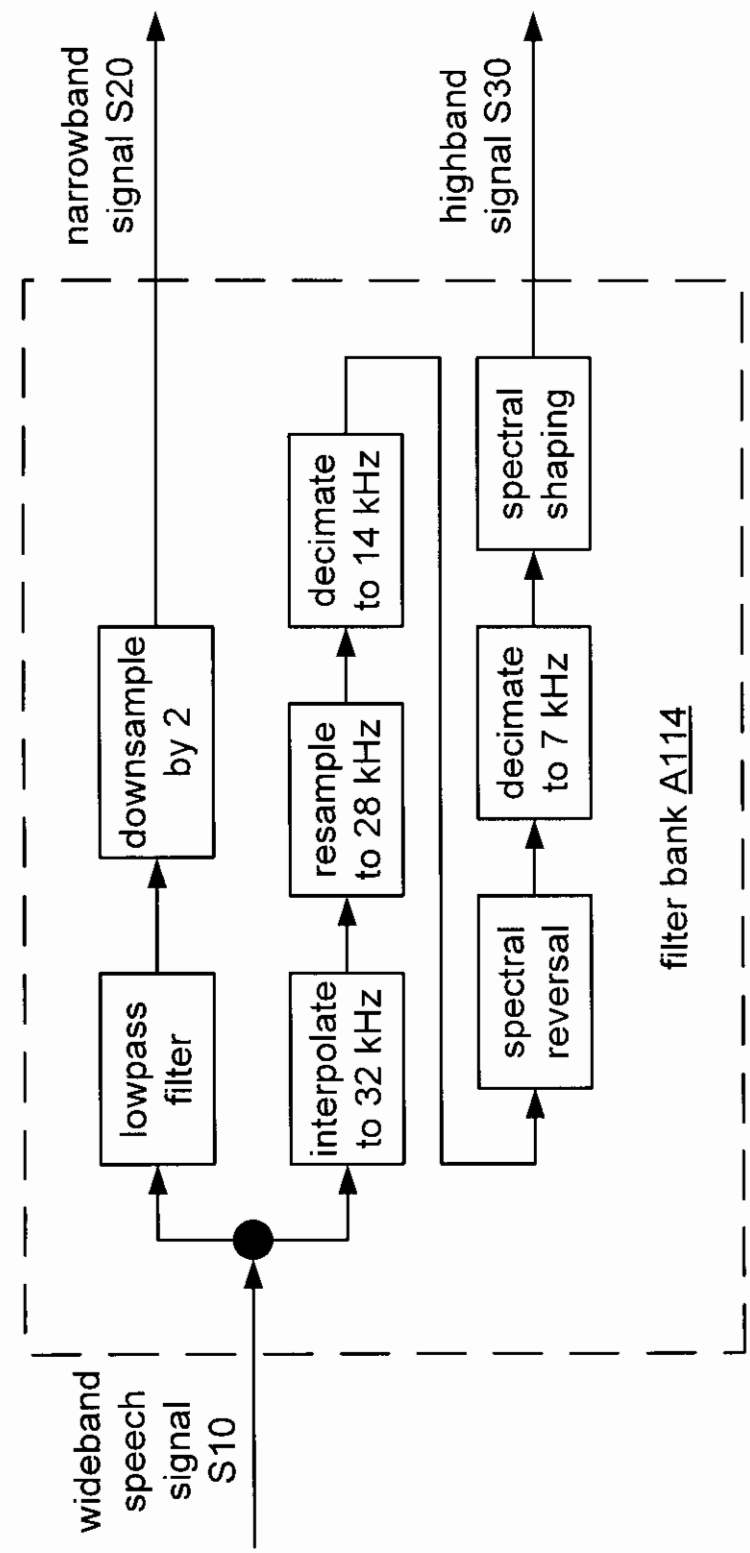
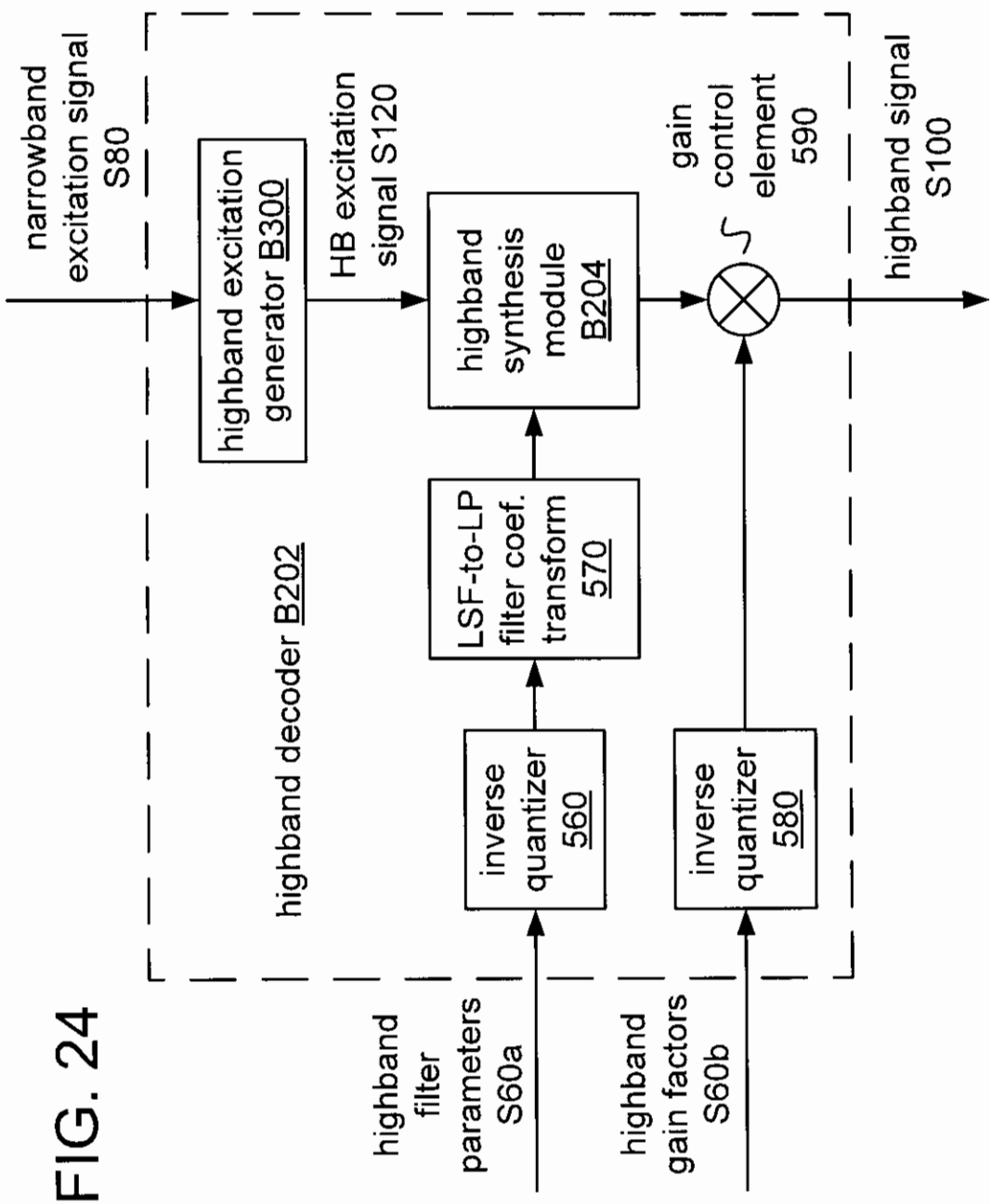

wideband speech signal S10
lowpass filter
downsample by 2
narrowband signal S20
interpolate to 32 kHz
resample to 28 kHz
decimate to 14 kHz
spectral reversal
decimate to 7 kHz
spectral shaping
highband signal S30
filter bank A114

FIG. 4c

FIG. 24


narrowband excitation signal S80
highband excitation generator B300
HB excitation signal S120
highband synthesis module B204
gain control element 590
highband signal S100
highband decoder B202
LSF-to-LP filter coef. transform 570
inverse quantizer 560
inverse quantizer 580
highband filter parameters S60a
highband gain factors S60b