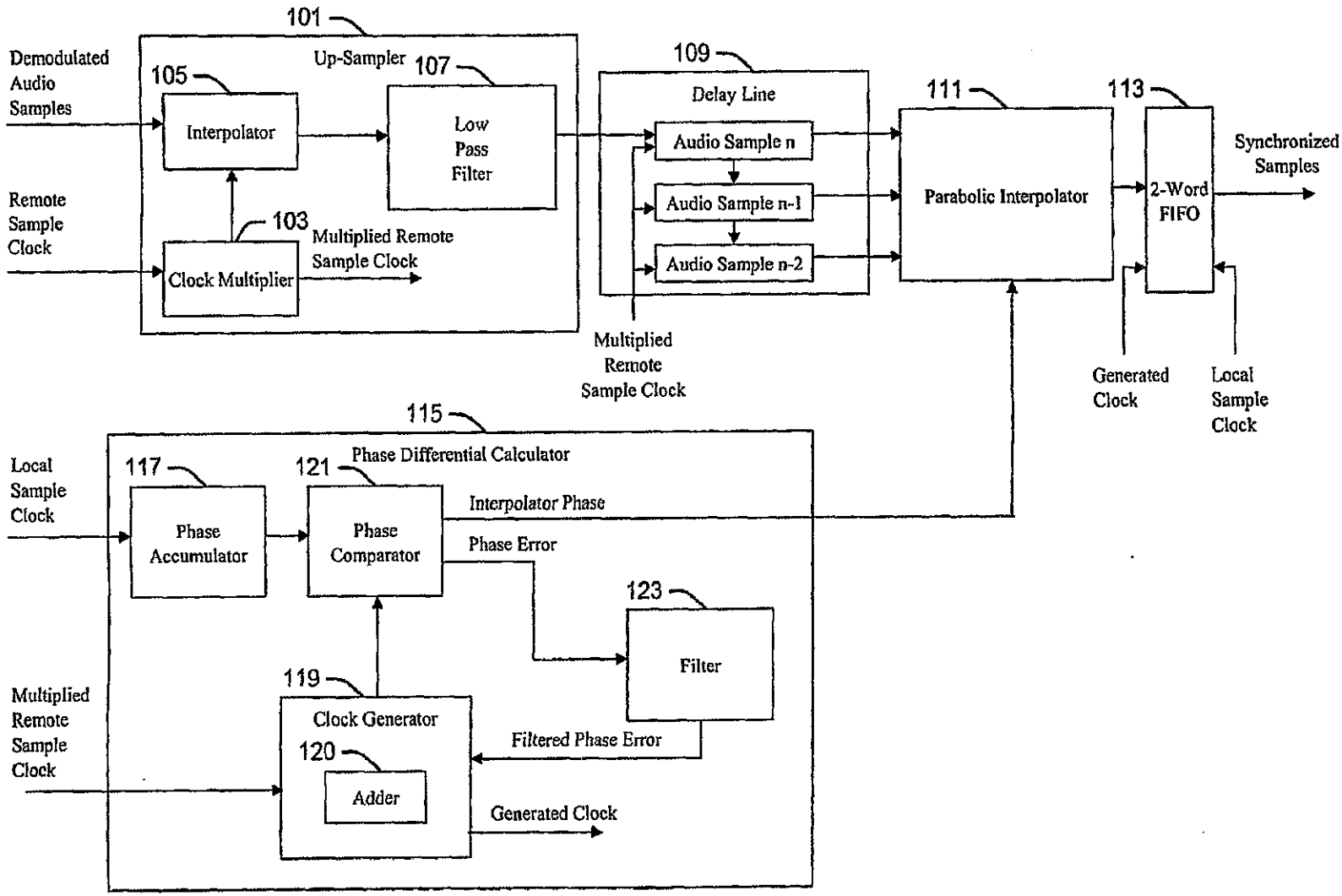

101
Up-Sampler
107
105
Interpolator
Low Pass Filter
Demodulated Audio Samples
Remote Sample Clock
103
Clock Multiplier
Multiplied Remote Sample Clock
109
Delay Line
Audio Sample n
Audio Sample n-1
Audio Sample n-2
111
Parabolic Interpolator
113
2-Word FIFO
Synchronized Samples
Multiplied Remote Sample Clock
Generated Clock
Local Sample Clock
115
Phase Differential Calculator
117
Phase Accumulator
121
Phase Comparator
Interpolator Phase
Phase Error
123
Filter
Local Sample Clock
119
Clock Generator
120
Adder
Filtered Phase Error
Multiplied Remote Sample Clock
Generated Clock

Fig. 1

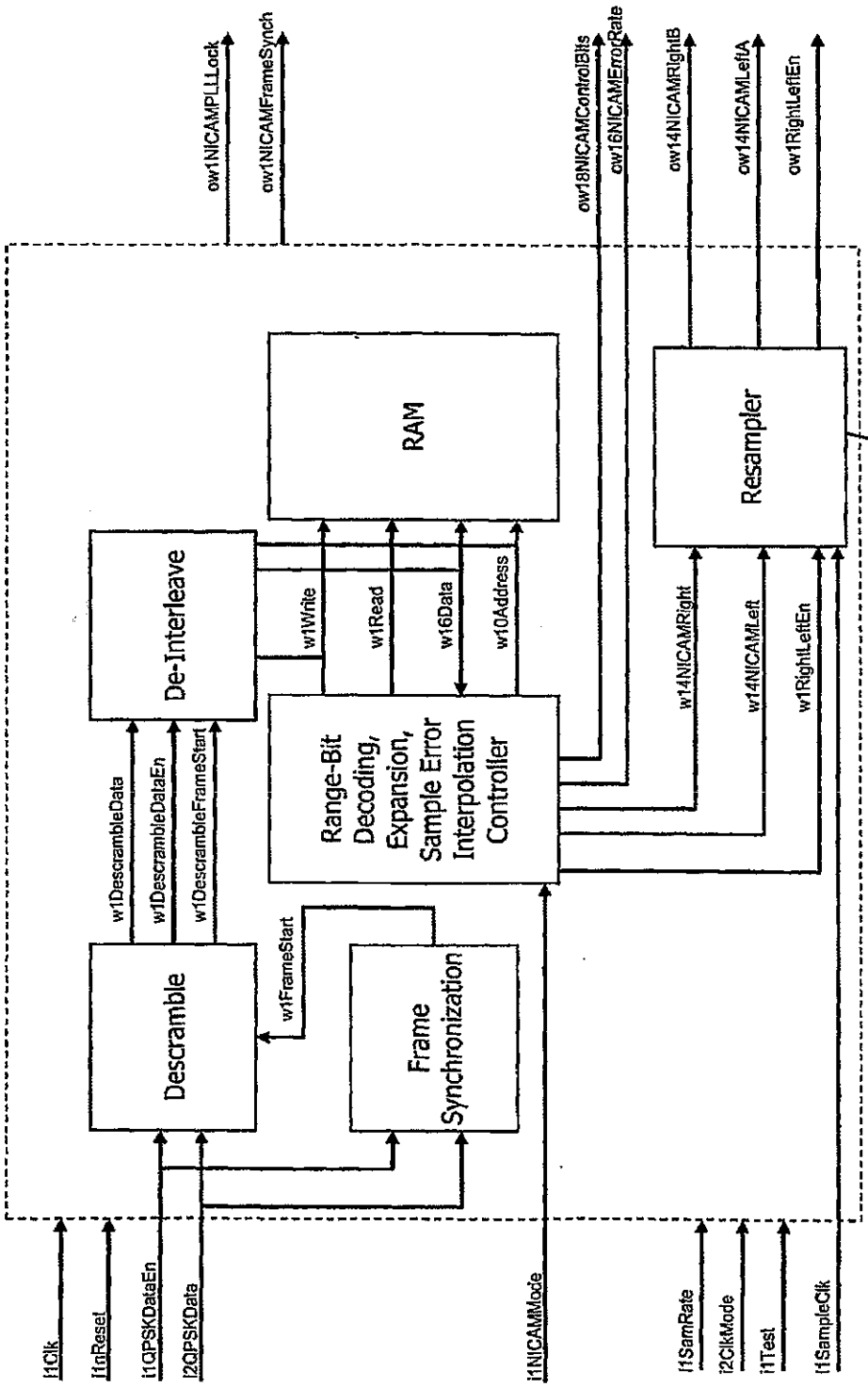

ow1NICAMPLLLock
ow1NICAMFrameSynch
ow18NICAMControlBits
ow16NICAMErrorRate
ow14NICAMRightB
ow14NICAMLeftA
ow1RightLeftEn
RAM
Resampler
201
De-Interleave
w1Write
w1Read
w16Data
w10Address
w1DescrambleData
w1DescrambleDataEn
w1DescrambleFrameStart
Range-Bit Decoding, Expansion, Sample Error Interpolation Controller
w14NICAMRight
w14NICAMLeft
w1RightLeftEn
Descramble
w1FrameStart
Frame Synchronization
i1Clk
i1nReset
i1QPSKDataEn
i2QPSKData
i1NICAMMode
i1SamRate
i2ClkMode
i1Test
i1SampleClk

FIG. 2

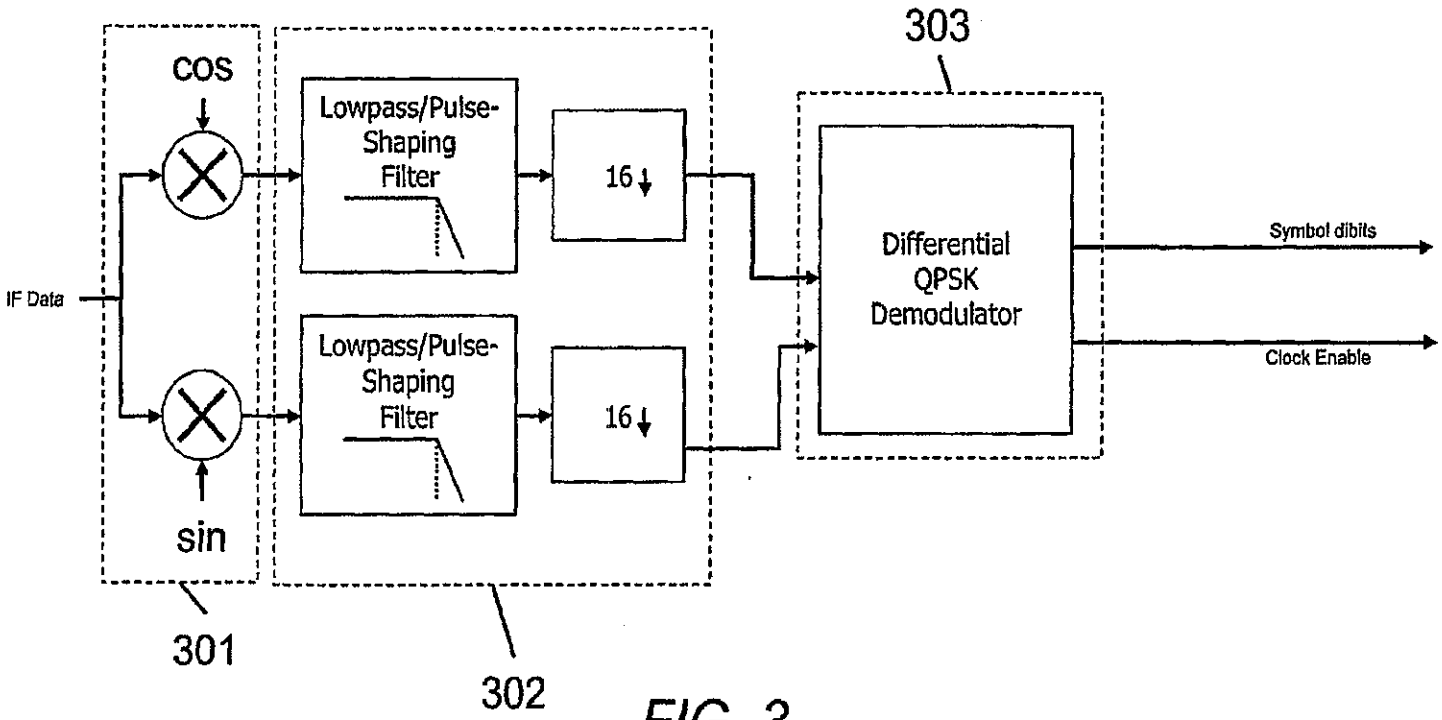


FIG. 3
(Prior Art)