

**DIGITAL TV RECEIVER CIRCUITRY FOR DETECTING AND
SUPPRESSING NTSC CO-CHANNEL INTERFERENCE**

ABSTRACT OF THE DISCLOSURE

Symbol decoding results obtained using comb filtering to suppress artifacts of NTSC co-channel interference before symbol decoding and symbol decoding results obtained without using such comb filtering before symbol decoding are compared for determining which symbol decoding results are to be selected as final symbol
5 decoding results. Symbol decoding results obtained using comb filtering to suppress artifacts of NTSC co-channel interference are selected as final symbol decoding results when NTSC co-channel interference occurs. The digital television signals are detected to determine whether 4.5 MHz NTSC intercarrier obtains, in order to confirm the occurrence of substantial NTSC co-channel interference.