

Title (en)

DETECTION METHOD FOR SIGNAL FRAME CONFIGURATION AND SIGNAL FRAME HEADER FOR BROADCAST SIGNAL

Title (de)

DETEKTIONSVERFAHREN ZUR SIGNALRAHMENKONFIGURATION UND SIGNALRAHMENHEADER FÜR EIN BROADCAST-SIGNAL

Title (fr)

PROCÉDÉ DE DÉTECTION POUR LA CONFIGURATION DE TRAME DE SIGNAL ET EN-TÊTE DE TRAME DE SIGNAL POUR SIGNAL DE RADIODIFFUSION

Publication

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Application

EP 08854842 A 20081126

Priority

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- CN 200710196636 A 20071129

Abstract (en)

[origin: WO2009069082A2] Low-complexity detection methods and apparatus are provided for detecting signal frame configuration in a DTV receiver or the like. In one embodiment, the detection takes advantage of a difference in average power between the signal frame header and the signal frame body in certain signal frame configurations. The specific frame header length of the signal frame configurations may also be exploited to identify the configuration and simplify the detection algorithm. Advantages of the method include that it is not sensitive to carrier frequency error or sampling frequency error and is robust and reliable in various wireless channels. Moreover, it entails only a small amount of computation and minimal additional buffer space for intermediate data storage. The power consumption can be made very low, a particular advantage for portable and mobile DTV receivers when they scan DTV programs. In one embodiment, the method only uses amplitude information of the received signals and can in large part share resources with other modules, such as an AGC module.

IPC 8 full level

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