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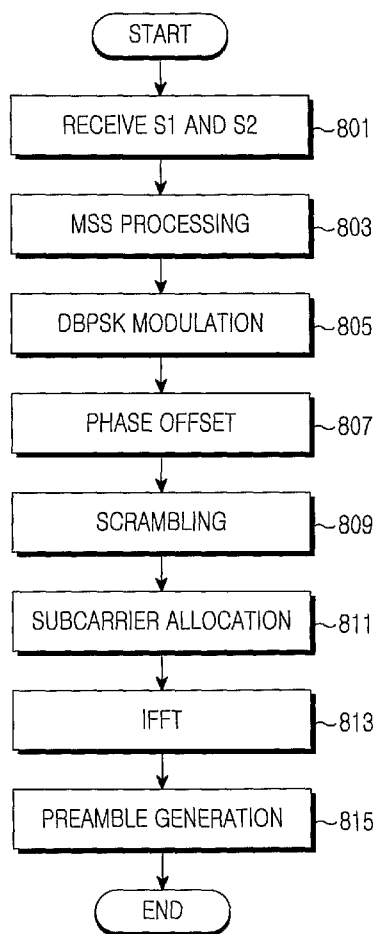
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(54) Title: APPARATUS AND METHOD FOR TRANSMITTING AND RECEIVING PREAMBLES IN A DIGITAL VIDEO BROADCASTING SYSTEM



(57) Abstract: An apparatus and method for transmitting a preamble in a Digital Video Broadcasting (DVB) system are provided. The apparatus includes a first processor for generating a Modulation Signaling Sequence (MSS) using a plurality of received sequences, and for outputting a modulated sequence by differentially modulating the MSS. The apparatus also includes a scrambler for scrambling the modulated sequence by multiplying the modulated sequence by a scrambling sequence. A second processor receives the scrambled sequence through each allocated subcarrier, converts the received sequence into a time-domain signal, and generates and transmits the preamble.

FIG.8



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