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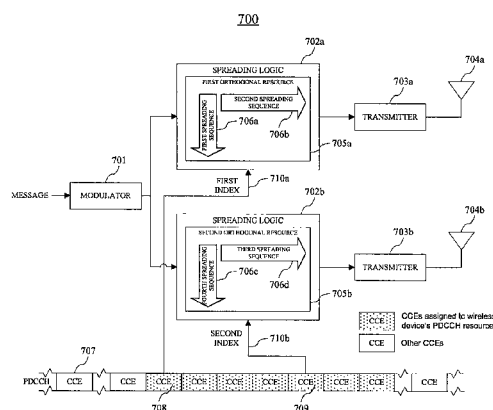


FIG. 7

(57) **Abstract:** Methods, devices, and systems for the transmission of information in a wireless communication system are disclosed. In one embodiment, a method for the transmission of information in a wireless communication system comprises receiving a downlink message (707), wherein the downlink message (707) includes a first control channel element (708); determining a first index (710a) using the location of the first control channel element (708); determining a second index (710b); determining a first orthogonal resource (705a) using the first index (710a); determining a second orthogonal resource (705b) using the second index (710b); spreading an uplink message using the first orthogonal resource (705a) to form a first spread signal; spreading the uplink message using a second orthogonal resource (705b) to form a second spread signal; transmitting the first spread signal using a first antenna (704a); and transmitting the second spread signal using a second antenna (704b).