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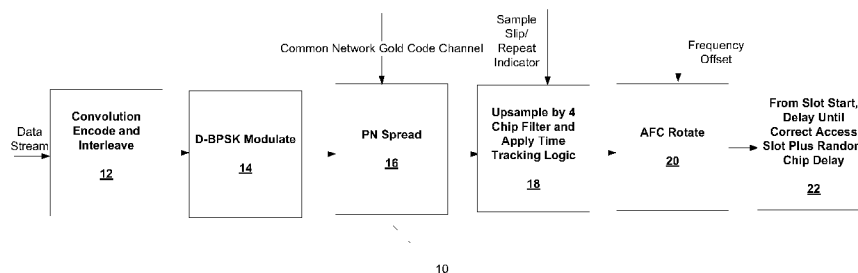


FIG. 1

(57) Abstract: A method for conserving bandwidth in a communication system includes spreading a data frame using a first pseudo-noise (PN) spreader. A broadcast frame is spread using a second PN spreader. A complex data stream having a first component and a second component is generated. The data frame is assigned to the first component and the broadcast frame is assigned to the second component. The complex data stream is transmitted to a tag.