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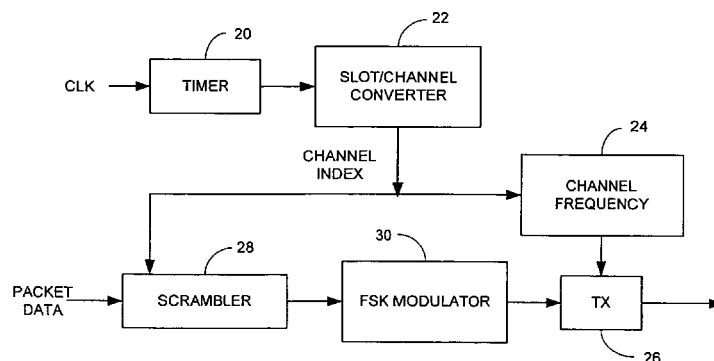
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(54) Title: DYNAMIC SCRAMBLING TECHNIQUES IN A WIRELESS NETWORK

**Fig. 4a**

(57) **Abstract:** Techniques are disclosed in which a parameter used for scrambling packet data is changed. If the initial scrambling of a packet causes a killer packet to be generated, the packet is re-scrambled using a different value for the parameter, so that a killer packet is avoided. In a network that employs frequency-hopping spread spectrum communications, a channel identifier can be employed as an input to the scrambling algorithm. In this implementation, a given packet of data will be transmitted on one channel with a first sequence of bits when it is scrambled, and on another channel with a different sequence of bits. If the scrambled packet for one of these channels results in a killer packet, it is statistically unlikely that it will also be a killer packet when it is re-transmitted on the other channel.