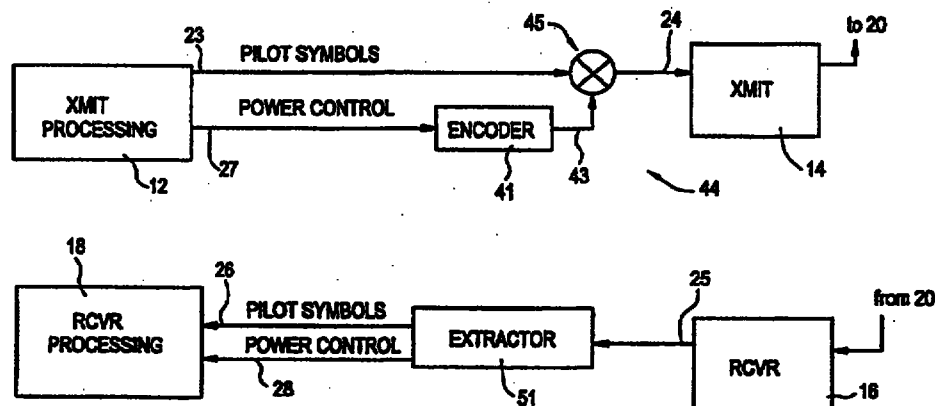




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(54) Title: INCREASING PERFORMANCE IN COMMUNICATIONS BY EMBEDDING ONE SIGNAL IN ANOTHER SIGNAL



(57) Abstract

In transmitting communication signals to a receiver via a transmission channel, the transmitter generates (44, 75) a composite signal (100) including information from which the receiver can determine (51) a channel evaluation signal and other control information. The composite signal is transmitted over the transmission channel (15). This results in improved channel capacity, reduced power transmission requirements, and reduced interference in the transmission channel.