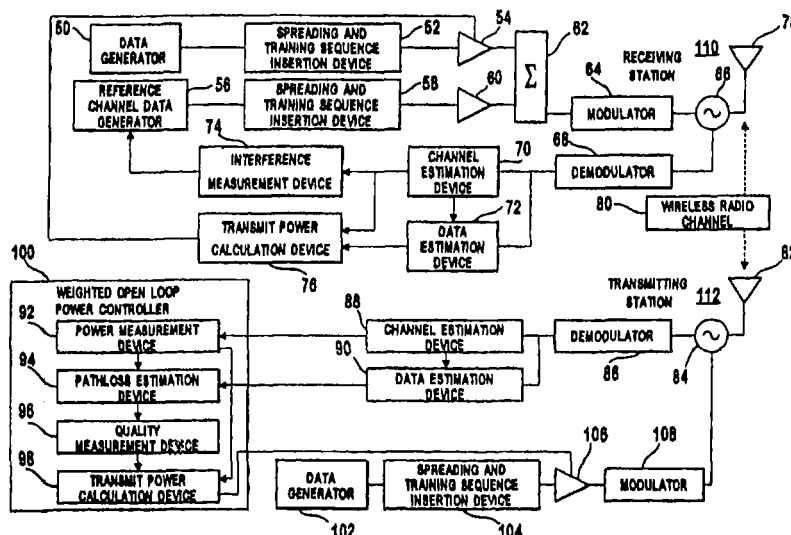




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(54) Title: WEIGHTED OPEN LOOP POWER CONTROL IN A TIME DIVISION DUPLEX COMMUNICATION SYSTEM



(57) Abstract

The invention controls transmission power levels in a spread spectrum time division duplex communication system. A first communication station (110) transmits a communication to a second communication station (112). The second station receives the communication and measures its received power level. Based on, in part, the received communication's power level, a path loss estimate and a long-term path loss estimate are determined. A quality of the path loss estimate is also determined based on the time difference between estimation of the path loss and the following transmission time slot. The transmission power level for a communication from the second station to the first station is based on, in part, weighting the path loss estimate and the long-term path loss estimate in response to the estimates quality.