Outer Loop/Weighted Open Loop Power Control In A Time Division Duplex Communication System

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Abstract of the Disclosure

Outer loop/weighted open loop power control 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 including target adjustment information generated at the first station on the basis of measured error rates of communications from the second station to the first station. The second station receives the communication and measures its received power level. Based on in part the received communication's power level and the communication's transmission power level, a path loss estimate is determined. A quality of the path loss estimate is also determined. 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 in response to the estimate's quality and based on the receive target adjusted by the target adjustment information transmitted from the first station.

Figure 4.