

REMARKS/ARGUMENTS

Claim Rejections - 35 USC § 102

The action rejected the claims over US 6,359,864 to Yoshida combined with US 5,812,542 to Bruckert.

Yoshida does not teach several elements that are claimed. First, it does not teach or suggest “a plurality of antennas at a base station” as claimed. In Yoshida, multiple antennas from various base stations transmit signals that are received by the UE. See Col. 3, line 67 and FIG. 1 discussion signals from a number of stations.

Second, Yoshida fails to teach or suggest that “the received signal from each transmitting antenna has a sequence of symbols unique to that antenna and the received signal has a weighted sequence of symbols transmitted from all of the plurality of antennas.” Specifically, Yoshida does not describe or suggest that the received signal has a weighted sequence of symbols transmitted from all of the plurality of antennas. This is described at least at publication paragraph 31. Bruckert does not cure this defect.

Finally, Yoshida’s subscriber unit receives multiple pilot signals and generates channel estimates for each channel between each antenna element at the transceiver base station. Yoshida does not teach or suggest combining a signals associated with the first antenna with a corresponding signal associated with the

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second antenna using the preferred weights, as is recited in the pending claims. Rather, Yoshida suggests combining pilot signals corresponding to those transmitted from a first antenna and a second antenna to generate a combined pilot signal. (See Cols. 5 and 6.). For this teaching, the action now relies on Bruckert FIG. 1, but Bruckert FIG. 1 does not seem to teach or suggest what is claimed. Bruckert FIG. 1 merely shows a method for weighting signals to improve hand-off, and does not teach or suggest the combining of pilot signals as claimed.

Independent claims 5 and 9 have elements similar to claim 1 and thus are also believed patentable.

