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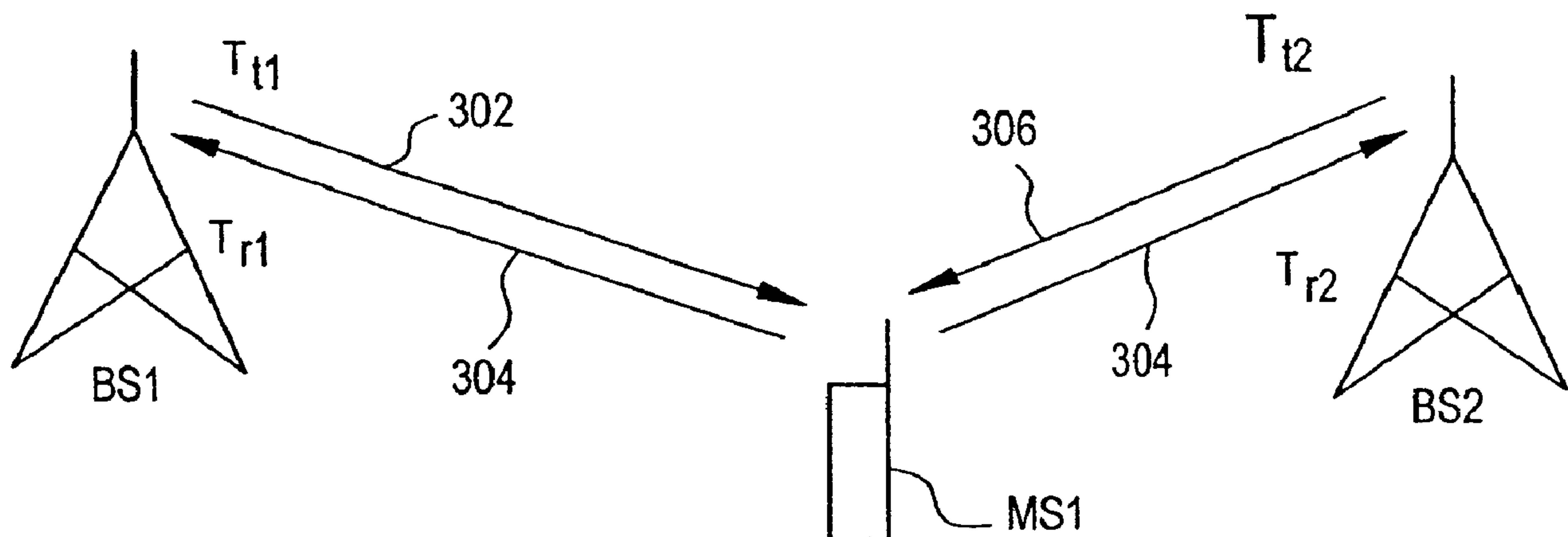
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(54) Titre : PROCEDE ET DISPOSITIF SERVANT A FACILITER LA SYNCHRONISATION DE STATIONS DE BASE
DANS UN SYSTEME DE COMMUNICATIONS MOBILE ASYNCHRONE AMDC

(54) Title: METHOD AND SYSTEM FOR FACILITATING TIMING OF BASE STATIONS IN AN ASYNCHRONOUS CDMA
MOBILE COMMUNICATIONS SYSTEM



(57) Abrégé/Abstract:

A method for estimating relative timing of base stations in an asynchronous mobile communications system comprises receiving at a first mobile station first and second downlink signals transmitted by first and second base stations; transmitting an uplink signal from the first mobile station to the first and second base stations; and calculating estimated relative time difference between the time bases of the first and second base stations using receive times at the first and second base stations of said uplink signal, transmit times of the first and second downlink signals, and a time difference at the first mobile station between a receive time of the second downlink signal and the transmit time of said uplink signal to account for propagation delays between first and second mobile stations.

ABSTRACT

A method for estimating relative timing of base stations in an asynchronous mobile communications system comprises receiving at a first mobile station first and second downlink signals transmitted by first and second base stations; transmitting an uplink signal from the first mobile station to the first and second base stations; and calculating estimated relative time difference between the time bases of the first and second base stations using receive times at the first and second base stations of said uplink signal, transmit times of the first and second downlink signals, and a time difference at the first mobile station between a receive time of the second downlink signal and the transmit time of said uplink signal to account for propagation delays between first and second mobile stations.

