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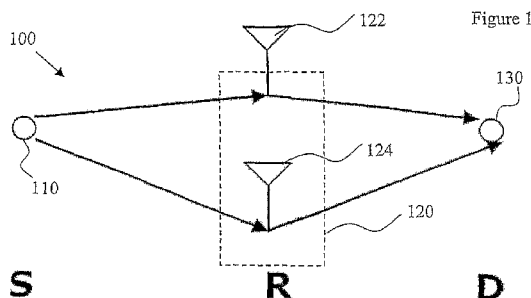
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(54) Title: ANALOG SPACE-TIME RELAY METHOD AND APPARATUS FOR A WIRELESS COMMUNICATION RELAY CHANNEL



(57) Abstract: An analog space-time relay method and apparatus for a wireless communication relay channel is disclosed herein. In a specific embodiment, the analog space-time relay channel (100) includes first and second relay antennas (122, 124) arranged to relay an information signal transmitted from a source station (110) to a destination station (130). The method comprises the steps of: (i) receiving a first symbol sequence at the first relay antenna (122), the first symbol sequence comprising the information signal and a first noise element; (ii) receiving a second symbol sequence at the second relay antenna (124), the second symbol sequence comprising the information signal and a second noise element; (iii) transmitting a first signal by the first relay antenna (122), the first signal being associated with the second symbol sequence received at the second relay antenna (124); (iv) transmitting a second signal by the second relay antenna (124), the second signal being associated with the first symbol sequence received at the first relay antenna (122). Method and apparatus for deriving a complex conjugate for a symbol sequence and a frame header structure are also disclosed.