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(54) **APPARATUS, METHOD, COMPUTER PROGRAM FOR REPEATING SIGNALS**

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(57) **ABSTRACT**  
In one embodiment, an apparatus performs receiving, via two different signal pathways, at least two different signals that are associated with different radio wave characteristics; changing the frequency of signal(s) to provide intermediate signal(s) with each having different frequencies; multiplexing the intermediate signals to allow signals to be transmitted together via a single wired connection; receiving a multiplexed signal via the single wired connection, the multiplexed signal including intermediate further signals having different frequencies, the intermediate further signals also being associated with differing radio wave characteristics; and separating the intermediate further signals into separate signals; changing the frequency of the further signals to provide further signals at a transmission frequency; and transmitting the further signals via the two signal pathways.

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