

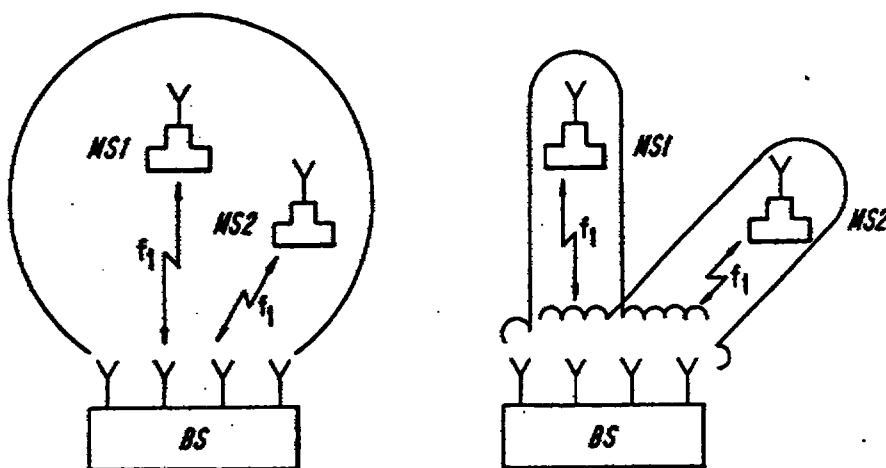
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(54) Title: USING TWO CLASSES OF CHANNELS WITH DIFFERENT CAPACITY



(57) Abstract

A method and apparatus for transmitting and receiving signals in a base station with an antenna array in a cellular communication system. The available communication channels are divided into a plurality of classes. The base station transmits signals to the mobile station in a first class of channels in a wide antenna lobe. The position of a mobile station can then be determined from signals received at the base station from the mobile station. After the position of the mobile station has been determined, the base station can transmit signals to and receive signals from the mobile station in a second class channel with a narrow antenna lobe.