

Compact Tunable Diversity Antennae

Abstract

[0037] The present invention describes an elongate and cylindrical antenna (100,100a,100b, etc). The antenna (100,100a, etc) comprises a central phase shift core (110) and a substrate sleeve (150). The substrate sleeve (150) has a number of antenna patches (152) formed on its cylindrical surface. The phase shift core (110) and/or substrate sleeve (150) is made up elongate strips of two materials of different dielectric. In another embodiment, the antenna further comprises a bandwidth adjustment sleeve (180) disposed around the substrate sleeve (150).

[0038] FIG. 2C for publication.