

Title (en)

METHOD AND APPARATUS FOR CANCELLING INTERFERENCE BETWEEN AREA COVERAGE AND SPOT COVERAGE ANTENNA BEAMS

Publication

**EP 0000038 B1 19811014 (EN)**

Application

**EP 78100062 A 19780601**

Priority

US 80315177 A 19770603

Abstract (en)

[origin: EP0000038A1] The present invention relates to method and apparatus for substantially cancelling interference between signals using the same frequency spectrum which are received via overlapping area coverage (12) and spot coverage (e.g. 14a) antenna beams. At the transmitter where the overlapping area and spot coverage beams are concurrently transmitted, a predetermined portion of the area coverage signal is coupled into each of the spot beam signals which will be overlapped at the associated spot beam receiver area by the area coverage beam. <??>The predetermined portion coupled into each spot beam signal will have a magnitude and phase to substantially cancel the area coverage signal at the associated spot beam receiver area.

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