Title (en)

METHOD AND APPARATUS FOR REGIONAL CELL MANAGEMENT IN A SATELLITE COMMUNICATION SYSTEM

Title (de)

VERFAHREN UND EINRICHTUNG ZUR REGIONALEN ZELLENVERWALTUNG IN EINEM SATELLITENKOMMUNIKATIONSSYSTEM

Title (fr)

PROCEDE ET DISPOSITIF POUR LA GESTION REGIONALE DES CELLULES DANS UN SYSTEME DE COMMUNICATIONS PAR SATELLITES

Publication

EP 0806095 A1 19971112 (EN)

Application

EP 95932315 A 19950825

Priority

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Abstract (en)

[origin: WO9614696A1] In a satellite communication system (10), communication channels are dynamically assigned in real-time based on actual demand using a regionalized channel assignment and reuse scheme. The tradeoff between system capacity and channel interference is optimized through the use of interlocking local regions (81, 82, 83). Satellite communication stations (12) within a radio line-of-sight of each other make up each local region. The communication stations of a local region change as the communication stations move through orbital positions. Channel reuse rules are adapted to system load and demand for services. Each communication station (12) establishes its local region and notifies the other communication stations within its local region whenever it assigns a communication channel to a subscriber unit. Channel assignments within each local region are maintained locally by the defining communication station.

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