

Title (en)
ZONED MICROCELL WITH SECTOR SCANNING FOR CELLULAR TELEPHONE SYSTEMS

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Application
EP 90916653 A 19901018

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Abstract (en)
[origin: WO9107019A1] A zoned microcell system (1) with sector scanning for cellular telephone systems has a plurality of contiguous cells, each having a different assigned set of transmission frequency channels, and handoff capability for maintaining communication from cell to cell. The system includes at least one cell (11) having a plurality of antenna sets (13, 15, 17). Each set is positioned at a respective sub-site (10, 16, 18), and configured so that propagation and reception of signals is limited to a transmission zone (13z, 15z, 17z) within the boundaries of, and which is less in area than the cell. A control device (79) monitors the strength of the signal received by each antenna set. Transmission, at each frequency channel, is confined to the antenna set having the strongest received signal thus limiting signal propagation to that transmission zone. In one embodiment, signal strength monitoring is provided at each sub-site, thus transmission is confined to a specific sub-set of antennas at the sub-site, and to a limited sector (115x, 115y, 115z) within the transmission zone.

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Citation (search report)
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• [A] US 4144411 A 19790313 - FRENKIEL RICHARD H
• See also references of WO 9107019A1

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