Title (en)
    AN ARRAY ANTENNA ARRANGEMENT

Title (de)
    GRUPPENANTENNENANORDNUNG

Title (fr)
    AGENCEMENT D'ANTENNE RÉSEAU

Publication
    EP 3780274 B1 20230329 (EN)

Application
    EP 19191491 A 20190813

Priority
    EP 19191491 A 20190813

Abstract (en)

    [origin: EP3780274A1] The present disclosure relates to an array antenna arrangement (20, 31, 52, 100, 200) comprising at least two array antennas (21, 22; 32, 33, 34, 53, 54; 101, 103, 105; 201, 203, 205) and at least two amplifier arrangement (23, 24; 35, 36, 37; 107, 108, 109; 207, 208, 209). Each array antenna (21, 22; 32, 33, 34, 53, 54; 101, 103, 105; 201, 203, 205) has a corresponding antenna aperture (25, 26; 38, 39, 40, 57, 58; 102, 104, 106; 202, 204, 206), and each amplifier arrangement (23, 24; 35, 36, 37; 107, 108, 109; 207, 208, 209) comprises a corresponding power amplifier (27, 28; 41, 42, 43; 110, 111, 112; 210, 211, 212) and a corresponding phase shifter device (29, 30; 44, 45, 46; 113, 114, 115; 213, 214, 215). A first amplifier arrangement (23, 35, 107, 207) is connected to a first array antenna (21, 32, 101, 201) having a first antenna aperture (25, 38, 102, 202), and a second amplifier arrangement (24, 36, 108, 209) is connected to a second array antenna (22, 33, 53, 103, 205) having a second antenna aperture (26, 39, 57, 104, 206). The first antenna aperture (25, 38, 102, 202) has a size that differs from a size of the second antenna aperture (26, 39, 57, 104, 206).

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