

Title (en)

WINDOW-MOUNTED ANTENNA ARRAY WITH A HIGH HEAT-TRANSMISSION ATTENUATION FACTOR

Title (de)

ANTENNENANORDNUNG AUF EINEM FENSTER MIT HOHER WÄRMETRANSMISSIONSDÄMPFUNG

Title (fr)

ANTENNE MONTEE SUR FENETRE, A COEFFICIENT ELEVE D'ATTENUATION DE LA TRANSMISSION DE CHALEUR

Publication

EP 0764350 A1 19970326 (DE)

Application

EP 96907319 A 19960401

Priority

- DE 9600572 W 19960401
- DE 19513263 A 19950407

Abstract (en)

[origin: DE19513263A1] The invention concerns a window-pane antenna array with one or more conductors (3) or conductor structures (3) mounted on or in the window pane (1) for a multiplicity of antennae for various radio services. Extending over the glass in the light-transmitting area of the window aperture is an electrically conducting film (5) of suitable thickness. This thermal-radiation-attenuating film (5) is divided into a sufficiently large number of electrically conducting zones (12). These zones (12) are separated from each other by narrow electrically non-conducting strips (6) of width (b) which is at least three times the film thickness. All the dimensions of the electrically conducting zones (12) are electrically small enough in their operating-frequency range, at least in the vicinity of the antenna, so that, by connecting in series all the same capacitors thus formed between the electrically conducting zones (12), undesirable high-frequency coupling, due to the incorporation of the electrically conducting zones (12), between the antenna-conductor elements (3) and other conductor elements in their vicinity is kept sufficiently small, and the width (b) of the strips is small enough to ensure that the area covered by the thermal-transmission-attenuating film is maximized.

IPC 1-7

H01Q 1/12; **H01Q 15/00**

IPC 8 full level

H01Q 1/12 (2006.01); **H01Q 15/00** (2006.01)

CPC (source: EP)

B32B 17/10036 (2013.01); **B32B 17/10192** (2013.01); **B32B 17/10376** (2013.01); **H01Q 1/1271** (2013.01); **H01Q 1/52** (2013.01); **H01Q 15/0013** (2013.01); **H01Q 21/28** (2013.01)

Citation (search report)

See references of WO 9631918A1

Designated contracting state (EPC)

DE ES FR GB IT SE

DOCDB simple family (publication)

DE 19513263 A1 19961010; EP 0764350 A1 19970326; WO 9631918 A1 19961010

DOCDB simple family (application)

DE 19513263 A 19950407; DE 9600572 W 19960401; EP 96907319 A 19960401