

A B S T R A C T

A MULTILAYER FOCUSING SPHERICAL LENS

5 The invention concerns a multilayer focusing
spherical lens (21) adapted to be mounted in a transceive
antenna device (1) of a terminal of a remote transceiver
system and having a concentric focal sphere (S),
characterized in that it has a central layer (21a) and a
10 peripheral layer (21b) having different dielectric
constants, each dielectric constant value being
determined so that the lens (21) focuses parallel
microwave beams towards the focal sphere (S) concentric
with the lens. It also concerns a transceive antenna
15 including a lens of the above kind and a terminal for
transmitting and receiving radio signals to and from at
least two remote transceiver systems moving at different
points in the field of view of said terminal, said
terminal including an antenna of the above kind. The
20 invention applies in particular to systems for
transmitting data at high bit rates to and from a
constellation of satellites, for public or private, civil
or military use.

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Translation of the title and the abstract as they were when originally filed by the
35 Applicant. No account has been taken of any changes that may have been made
subsequently by the PCT Authorities acting ex officio, e.g. under PCT Rules 37.2,
38.2, and/or 48.3.