

Title (en)  
Antenna apparatus

Title (de)  
Antennenvorrichtung

Title (fr)  
Antenne

Publication  
**EP 2693566 B1 20181219 (EN)**

Application  
**EP 12360053 A 20120802**

Priority  
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Abstract (en)  
[origin: EP2693566A1] Antenna apparatus and a method of providing antenna apparatus. The apparatus comprising: a parabolic dish operable to collect and direct a satellite spectrum electromagnetic signal towards a focal point of the parabolic dish; a converter located at the focal point operable to convert the satellite spectrum electromagnetic signal to an electrical signal, the converter being coupleable to cabling for carrying the electrical signal; wherein the antenna apparatus further comprises: a white space electromagnetic signal radiating element arranged to use the parabolic dish as a white space electromagnetic signal reflector and coupleable to cabling for carrying electrical signals to and from the white space electromagnetic signal radiating element. Aspects recognise that a typical satellite antenna apparatus comprising a parabolic dish and converter, can also act as a part of a white spectrum antenna. In particular, providing a white space spectrum radiating element and positioning it such that the parabolic dish of the satellite antenna can be used as a reflector, a highly directional, high gain white space antenna may be formed. Allowing the combined antenna apparatus to be connectable to suitable feed lines can allow a signal to be fed to, and taken from, each of the two antenna provided as a single piece of antenna apparatus.

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