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RADIO ANTENNA WITH IMPROVED SUPPORT SYSTEM

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ABSTRACT

Radio antennas must maintain their paraboloid shape and directional positioning in order to work properly. However wind can load the antenna dish and cause it to lose its shape and position.

To address this situation, researchers at UC Berkeley have developed a support system that strengthens antenna dishes and provides several structural enhancements. The support system consists of reinforcements that enable firm radial and torsional support as well as an optimal amount of axial flexibility and support. This design allows for a large open area so that azimuth and elevation-bearing systems can be positioned near to the reflector vertex. This positioning enables lower loads and less structural requirements for the pedestal and drives.

APPLICATIONS

Radio communications especially broadband astronomy

Commercial satellite dish technology

ADVANTAGES

Increased radial and torsional stability

Improved axial flexibility and support

Decreased structural requirements for pedestal

Decreased positioning requirements for drive

PATENT STATUS

Country	Туре	Number	Dated	Case
United States Of America	Issued Patent	7,330,160	02/12/2008	2005-079

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OTHER INFORMATION

CATEGORIZED AS

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