

ABSTRACT

DEPLOYABLE ANTENNA REFLECTOR

A reflective antenna comprising a flexible reflective sheet extending between a central hub and a perimeter edge, and a reflective sheet support mechanism comprising one or more spiral ribs articulated to the reflector sheet at least at several locations along the perimeter edge of the reflective sheet; wherein at a collapsed, stowed position of the reflective antenna the one or more spiral ribs are coiled about a common center and the reflective sheet is folded at a compact configuration, and at an expanded, deployed position the one or more spiral ribs are radially expanded and the reflective sheet is stretched over the expanded one or more spiral ribs, imparting the reflective sheet a parabolic shape.

Fig. 1