CLAIMS:

1. A reflective antenna (10) comprising a flexible reflective sheet (14) extending between a central hub (22) and a perimeter edge (32), and a reflective sheet support mechanism (40) comprising one or more spiral ribs articulated to the reflective sheet at least at several locations (46) 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.

2. A reflective antenna according to Claim 1, further comprising a deploying mechanism for manipulating the one or more spiral ribs between the stowed position and the deployed position, thereby deploying the reflective antenna into its deployed, operative position.

3. A reflective antenna according to Claim 2, wherein the deploying mechanism is a mechanical arresting unit configured for arresting the one or more spiral ribs at their collapsed, coiled position, while under tension, and upon receiving a deployment signal the arresting unit is configured to discharge the one or more spiral ribs into their expanded position;

4. A reflective antenna according to any one of Claims 1 to 3, wherein the reflective sheet support mechanism is configured to be disposed on either, or both, of an inside face (26) and an outside face (28) of the reflective sheet.

5. A reflective antenna according to any one of the preceding claims, wherein the reflective sheet comprises two or more layers of sheet material (15), wherein the reflective sheet support mechanism is disposed between the layers of the reflective sheet.

6. A reflective antenna according to any one of the preceding claims, wherein the one or more spiral ribs of the reflective sheet support mechanism are wires.

7. A reflective antenna according to any one of the preceding claims, wherein at the collapsed position the one or more spiral ribs are coiled at a round plane extending along a central axis (X) of the reflective antenna.

8. A reflective antenna according to any one of the preceding claims, wherein at the collapsed position, the one or more spiral ribs are coiled into a cylindrical shape, or a

conical shape, having an axis extending along the central axis (X) of the reflective antenna.

9. A reflective antenna according to any one of the preceding claims, wherein at the collapsed position, the one or more spiral ribs are tensioned and are restrained so as to be prevented from spontaneous deforming into the deployed position.

10. A reflective antenna according to any one of the preceding claims, wherein the reflective sheet support mechanism is configured of a single spiral rib, coiled about itself, and wherein at the deployed position a most distal coil (48) of the spiral rib is articulated at a plurality of locations to the perimeter edge of the reflective sheet.

11. A reflective antenna according to any one of the preceding claims, wherein the articulation of the reflective sheet to the one or more spiral ribs is via floating attachments, configured to facilitate the sliding displacement of the reflective sheet with respect to the one or more spiral ribs.

12. A reflective antenna according to any one of the preceding claims, wherein the reflective sheet is pre-formed at a desired shape, wherein at the deployed position the reflective sheet is tensioned to assume said pre-formed shape.