

ABSTRACT

MULTIPLE-FEED ANTENNA SYSTEM HAVING MULTI-POSITION SUBREFLECTOR ASSEMBLY

A multiple-feed antenna system includes a primary reflector that directs signals along a primary RF signal path and a subreflector assembly movable between a first position and a second position. When the subreflector assembly is in the first position, the subreflector assembly redirects signals traveling along the primary RF signal path to a first RF signal path. When the subreflector assembly is in the second position, the subreflector assembly redirects signals traveling along the primary RF signal path to a second RF signal path. The multiple-feed antenna system further includes: a first feed that intersects the first RF signal path and that communicates signals within a first frequency range; a second feed that intersects the second RF signal path and that communicates signals within a second frequency range; and an actuator that moves the subreflector assembly to the first position and to the second position.

[Figure 13A]