

ABSTRACT

FLEXIBLE ARRAY ANTENNA AND METHODS OF OPERATING IT

5 An array antenna configured to be placed at a determined position above the
ground surface. The array antenna is assembled by a plurality of UAVs, each UAV
carrying one or more antenna elements of the array antenna. The plurality of UAVs
configured to create a defined formation at the determined position above the ground
and thereby align the one or more antenna elements carried by the UAVs to form the
10 array antenna. The array antenna configured to receive electromagnetic signals reflected
from a region of interest, or from one or more objects, within its line of sight.

Fig. 1a