

AERIAL VEHICLE WITH DEPLOYABLE COMPONENTS

ABSTRACT

An unmanned aerial vehicle with deployable components (UAVDC) is disclosed. The system may include a sweeping gearbox designed to deploy at least one wing from a compact to a deployed arrangement. A controller may be configured to detect launch conditions, monitor for conditions, and trigger the gearbox upon condition fulfillment. Activation of the sweeping gearbox may result in wing deployment, adapted to the detected conditions. The method may involve deploying wings using the sweeping gearbox, launching detection, monitoring for conditions, and activating the gearbox for wing deployment upon condition detection.

FIG. 2C