

Abstract**METHODS, SYSTEMS, AND DEVICES FOR INSPECTING STRUCTURES AND OBJECTS**

5 Embodiments relate to methods, systems, and devices for performing an inspection on
a telecommunication structure and/or one or more objects that are attached on the
telecommunication structure. The system includes an unmanned aerial vehicle that includes
one or more of the following: an image capturing subsystem, an object identifying subsystem,
a distance measuring subsystem, a navigation subsystem, an electromagnetic interference
10 subsystem, and an onboard processor that is in communication with the image capturing
subsystem, the object identifying subsystem, the distance measuring subsystem, the navigation
subsystem, the electromagnetic interference subsystem. The system also includes a control
processor that is in communication with the onboard processor. Further, the control processor
may also be the onboard processor on the unmanned aerial vehicle. The method includes
15 configuring an unmanned aerial vehicle, receiving information pertaining to the
telecommunication structure, generating a first flight path, communicating a command to
control movements of the unmanned aerial vehicle along the first flight path, receiving
information including a first electromagnetic interference signal, processing information
including comparing the first electromagnetic interference signals with a threshold signal level,
20 and generating a second flight path in response to a determination that the first electromagnetic
interference signal is greater than or equal to the threshold signal level.

Most illustrative drawing is Figure 3.