

ABSTRACT

Drone (100) for explosive gas atmospheres, comprising propulsion means (110) comprising propellers (110a) connected to coaxial rotors (110b), pressurized enclosure (120) connected to the propulsion means (110) and comprising polymeric material with conductive fillers, wherein the pressurized enclosure (120) comprises a first cover (130), a central ring (140) and a second cover (150), wherein a first space (A) defined between the first cover (130) and the central ring (140) houses the drone control unit (100) for controlling at least the propulsion means, wherein a second space (B) defined in the central ring (140) houses the power electronics to power the propulsion means and wherein a third space (C) defined between the second cover (150) and the central ring (140) houses one or more control and data acquisition sensors.

FIG. 1