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(57) Abstract :

An aircraft crash detection system (100), comprising: sensors (104a-104n) to monitor a condition of electronic and mechanical components of an aircraft (102); an airbag (108) arranged outside of the aircraft (102), deployed to protect an outer body of the aircraft (102) based on a requirement; an air cushion (110) arranged inside the aircraft (102), is deployed to protect passengers sitting inside the aircraft (102) based on the requirement; and a control unit (106), configured to: receive the monitored condition of the electronic and the mechanical components of the aircraft (102); determine whether a crash is likely to occur based on the monitored condition of the electronic and the mechanical components of the aircraft (102), and trigger a signal to deploy the airbag (108) and air cushion (110) of the aircraft (102) when the control unit (106) determines that the crash is likely to occur.

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