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(57) Abstract :

The Multi-Purpose Unmanned Aerial Vehicle (UAV) System described herein presents an innovative aircraft designed to operate without a human pilot onboard. UAVs, commonly known as drones, are equipped with a range of components including a frame, propulsion system, control system, communication system, and payload. These UAVs can be remotely controlled or autonomously programmed to execute predefined flight paths and perform diverse tasks. The system's versatility enables applications such as aerial photography, surveillance, search and rescue, agriculture, environmental monitoring, infrastructure inspection, and package delivery. The advantages of UAVs lie in their ability to access remote or hazardous areas, cost-effectiveness, and task flexibility. However, challenges such as regulatory restrictions, privacy concerns, and limited battery life or range must be addressed for their widespread adoption and safe operation.

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