

(54) Title of the invention : NOVEL WEIGHT SHIFTING MECHANISM EMPLOYING MOVEABLE BATTERY MOUNT FOR CONTROL OF DOUBLE ROTOR CO- AXIAL DRONE

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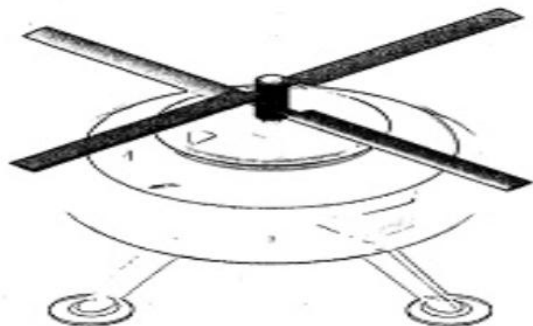
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(57) Abstract :

The titled invention Novel weight shifting mechanism employing moveable battery mount for control of double rotor co-axial drone discloses the design of co axial drone with weight reduction technology. With the provision of moveable mount, forces and moments are created which produces the roll and pitch. Hence, there is no need for an additional mass for this purpose, and hence no additional unnecessary payload. Use of two stepper motors which are mounted in orthogonal directions, enabling free positioning of the battery mass in the plane of motion, thus enabling user to have better control of the drone. Ability to change sensitivity of the drone by simply changing the material of the battery mount, thus changing the weight and thereby creating the unbalance of forces and moments, allowing an extended range of motion.

Figure - 1



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