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**Title:** Vertical take-off aircraft

**Abstract:** Source: US4071207A. A wingless vertical take-off aircraft having multiple ducted propeller rotors with controllable pitch blades symmetrically mounted in the forward and the rear portions and on both sides of the aircraft with the ducts angled downwardly at an acute angle to the aircraft longitudinal axis, transversely extending deflector vanes pivotable vertically within the exit portion of the ducts, and a rudder for yaw control mounted in the exit portion of each rearwardly located duct. Control in altitude and in attitude about the pitch and roll axes is achieved by controlling the collective pitch of the propellers in selected ducts with the roll control being interconnected to the yaw control to counteract roll/yaw coupling effects and control in trim and forward flight thrust being provided by setting the position of the deflector vane to divert the air flow from the ducts in variable directions with respect to the aircraft axis and the vertical.

**Owner(s)/Assignee(s):** PIASECKI AIRCRAFT CORP

**Inventor(s):** PIASECKI FRANK N; MEYERS DONALD N

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**Priority:** US19750611739 19750909

**Classifications:**
- International (IPC): B60V1/00 B64C29/00 (Advanced/Invention);
- B60V1/00 B64C29/00 (Core/Invention);
- Cooperative (CPC): B64C29/0025
- European (ECLA): B60V1/00 B64C29/00B2B
- US (IPC): 180/118 180/120 244/12.5 244/221 244/23D


**Agent(s):**
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