CLAIMS:

1. A propulsion device (10) comprising a body (10a) including a platform (11) arranged to accommodate a passenger and a thrust unit (12), said thrust unit (12) including :
   - a first thermal thruster (12a1, 12a2, 12a3, 12a4, 12a5, 12a6) configured to eject a gaseous flow along a first axis normal (AL12a, AL12b) to the platform (11),
   - a second thermal thruster (19c, 19d) ejecting a gaseous flow along a second axis normal to the platform (11),
   - first and second electrical secondary thrusters (19c, 19d) configured to correct the attitude of the propulsion device (10)and to eject a gaseous along respectively a third and a fourth axes normal to the platform (11),
   said body (10a) of the propulsion device (10) comprising support means (14) of the thrust unit (12) cooperating with the platform and being arranged to support said thrust group, wherein said platform (11) is extended along a longitudinal axis and the first and second electrical secondary thrusters (19c, 19d) are located respectively at the longitudinal ends of said body (10a) of said propulsion device (10).
2. The propulsion device (10) according to claim 1, comprising an attitude sensor cooperating with the body (10a) of the device (10) and processing means configured to cooperate with said attitude sensor and generate, from information delivered by the latter, power commands of the first and second electrical secondary thrusters (19c, 19d).
3. The propulsion device according to any of claims 1 to 2, wherein said first, second, third and fourth gaseous flow ejection axes of said first and second thermal thrusters (12a1, 12a2, 12a3, 12a4, 12a5, 12a6, 12b1, 12b2) and said first and second electrical secondary thrusters (19c, 19d) are disposed in a same plane.

4. The propulsion device (10) according to the claim 3, wherein said plane comprising said first, second, third and fourth axes of gaseous flow ejection of the thermal (12a1, 12a2, 12a3, 12a4, 12a5, 12a6, 12b1, 12b2) and electrical secondary thrusters (19c, 19d) comprises the center of gravity of the body of the propulsion device (10).