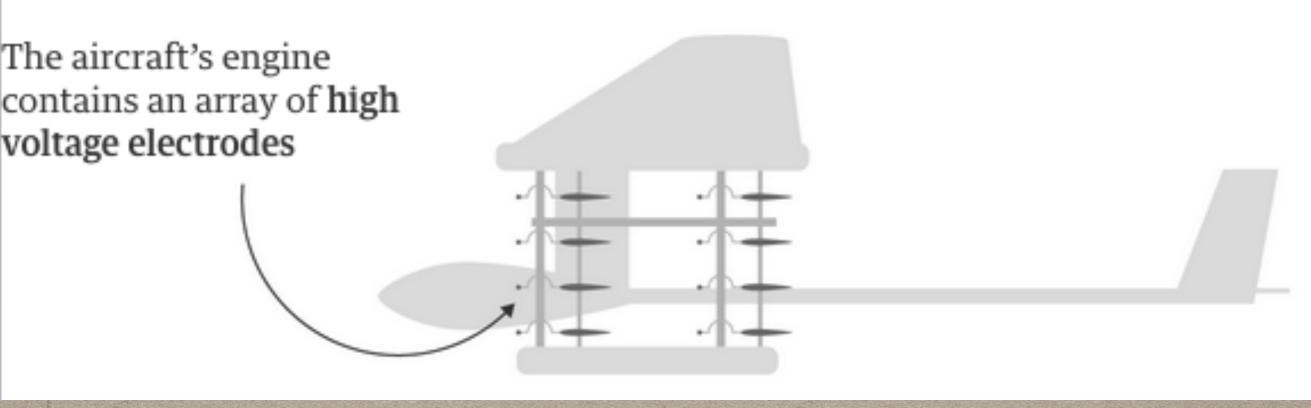
A PLANE WITH NO MOVING PARTS HAVE FLOWN 60 M (180 FEET)



A CHILDHOOD DREAM OF AN MIT PROFESSOR:

- FLYING SILENTLY
- HAVING NO MOVING PARTS (PROPELLERS, TURBINES)
- HAVE A 'BLUE GLOW'

SOLUTION: IONIC WIND (1920S)

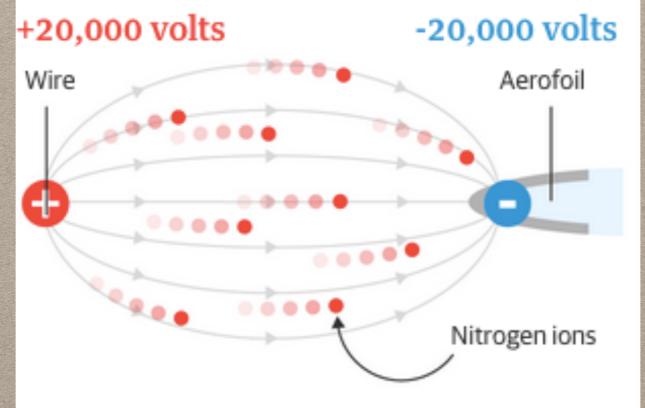


Wires at the leading edge of the wing have 600 Watts of electrical power pumped through them by 40,000 volts

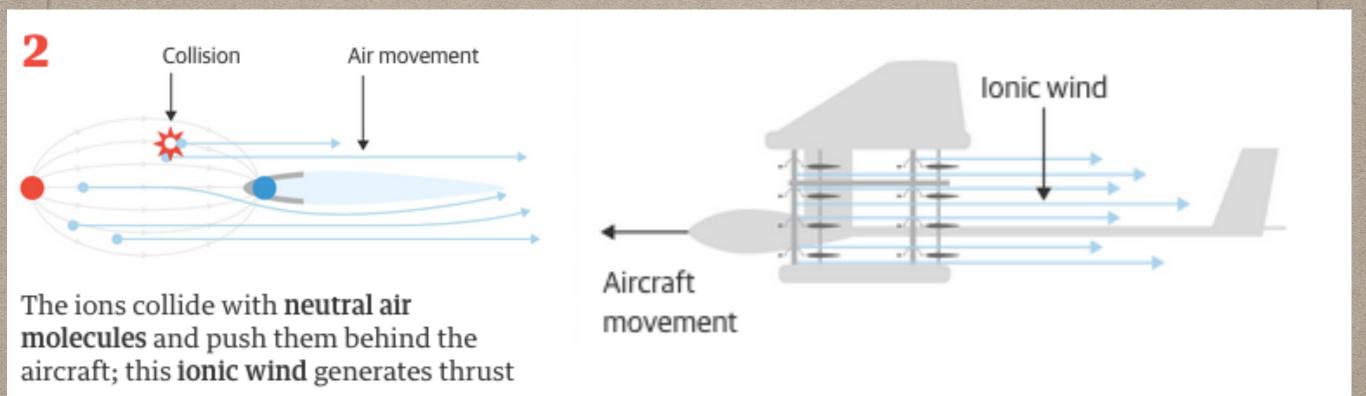
This creates "electron cascades," charging air molecules near the wing

1

Each electrode is comprised of a thin wire which carries a high positive charge followed by a negatively charged aerofoil



Atmospheric **nitrogen is ionised** and the electric field carries these ions from the wire to the aerofoil



Propulsion is entirely electrically generated, almost completely silent, and with a thrust-to-power ratio comparable to a conventional jet engine



Version Two

2.45 kg (5.4 lbs) - 5 m (15 ft) wingspan Battery pack; high-voltage power converter

Future:

- Larger, faster planes
- Replacing drones
- High altitude, solar powered planes substitute satellites
- -> Carbon-neutral flight
- -> Miniaturization to extremely small size
 - -> anyone's guess