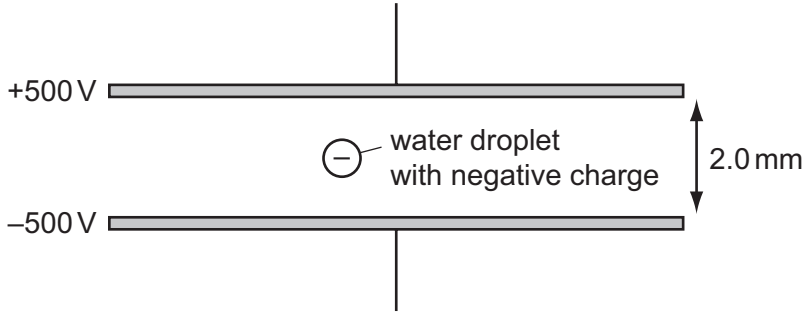
13 A small water droplet of mass 3.0 μg carries a charge of -6.0×10^{-11} C. The droplet is situated in the Earth's gravitational field between two horizontal metal plates. The potential of the upper plate is +500 V and the potential of the lower plate is –500 V.



What is the motion of the droplet?

A It accelerates downwards.

B It remains stationary.

C It accelerates upwards.

D It moves upwards at a constant velocity.