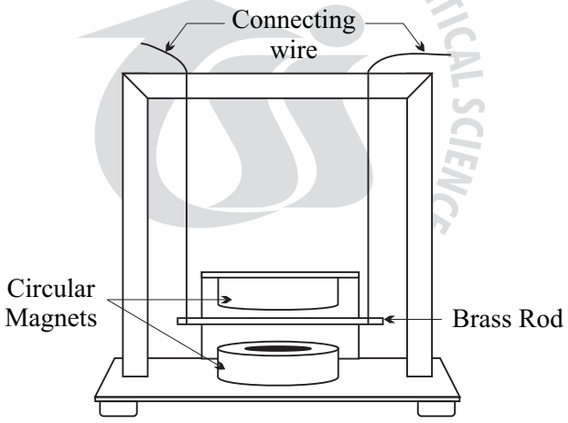
FLEMING'S LEFT HAND RULE

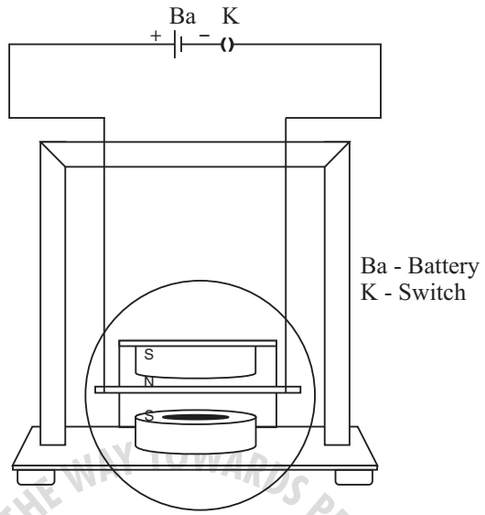
Force on a current carrying conductor placed in a magnetic field or principle of motor.

Assembly **:**

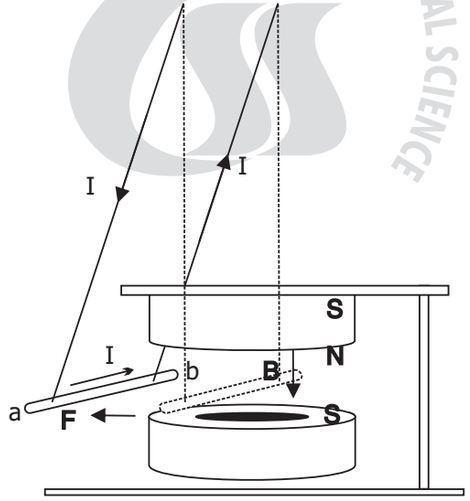
A brass bar suspended between two circular magnets. These magnets are mounted on a clear plastic frame. The brass bar is suspended by means of connecting wires which are also used to pass current through it.



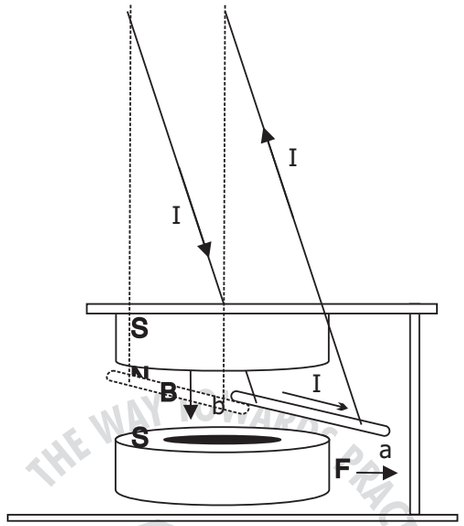
To do and observe :



Apparatus with electric connections



Step-1 : Observe the direction of motion of conductor when current is passed through the rod



(c)

Step-2 : Observe the direction of motion of conductor when current is reversed through the rod

What is going on?

The displacement of the brass rod is understood as follows. Stretch the thumb, index finger and middle finger of left hand. Orient the hand such that index finger shows the direction of magnetic field and middle finger indicates the direction of the electric current. Now the stretched thumb indicates the direction of force (and hence the deflection of rod) experienced by the rod.

John Ambrose Flaming
(1849-1945)

TARANG SCIENTIFIC INSTRUMENTS

THE WAY TOWARDS PRACTICAL SCIENCE

FLEMING'S LEFT HAND RULE

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