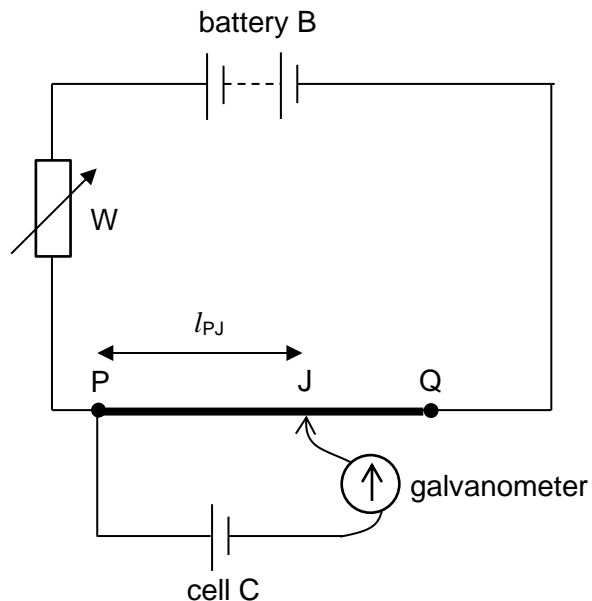


- 23** A battery B, a variable resistor W and a uniform resistance wire PQ are connected in series. A cell C and a galvanometer are connected to the wire PQ with a contact J as shown.



The contact J is moved along wire PQ until the galvanometer reads zero. The distance of J from P, l_{PJ} is then measured.

Which of the following changes will increase the measured distance l_{PJ} ?

- A** Removing W from the circuit.
- B** Adjusting W to a higher resistance.
- C** Connecting a resistor parallel to the galvanometer.
- D** Replacing wire PQ with another wire of similar length and resistivity but smaller diameter.