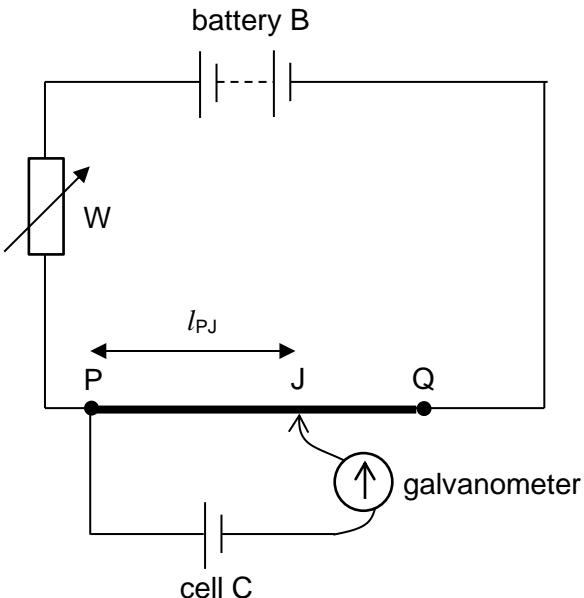


- 23 A battery B, a variable resistor W and a uniform resistance wire PQ are connected in series. A cell C and a galvanometer are connected to the wire PQ with a contact J as shown.



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

Which of the following changes will increase the measured distance I_{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.