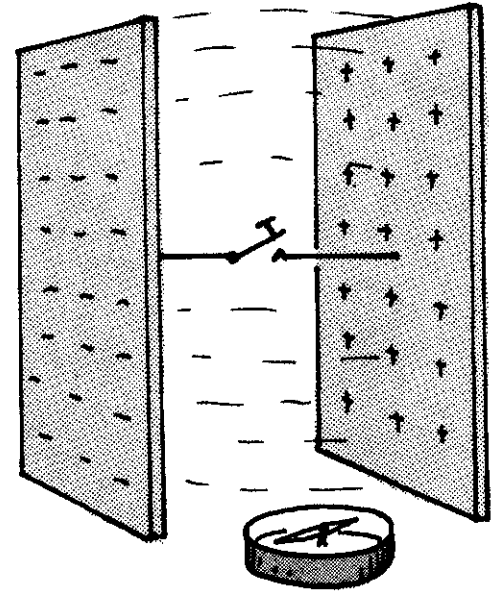


## DISPLACEMENT CURRENT

of  
d  
L  
-  
g  
1  
2  
3  
4  
5  
6  
7  
8  
9  
0

A wire connects two oppositely charged plates, as illustrated (such an arrangement is a capacitor). A magnetic compass is located just outside the plates as shown. When the switch is closed, allowing the plates to discharge through the wire, there will be a momentary current in the wire. You might therefore expect that the magnetic compass would be somehow affected. Will it be affected?



- a) Yes, it will be affected
- b) No, it will not be affected