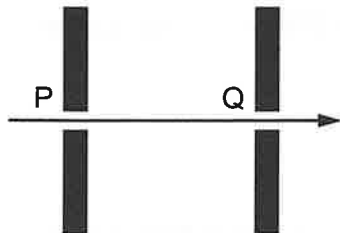


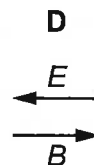
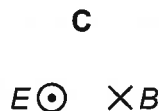
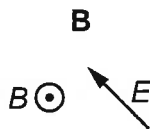
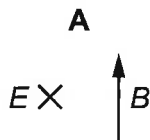
23 A negative ion moving in a straight line passes through small holes P and Q in identical plates.



There is a uniform electric field E and a uniform magnetic field B between the two plates.

The directions of these fields are shown by arrows or these symbols: \odot a field coming out of the paper; \otimes a field going into the paper.

Which orientation of the two fields is **not** possible?



24 A particle of charge $-q$ moves with a constant velocity v in a region where there is a uniform magnetic field B . The particle is not deflected.