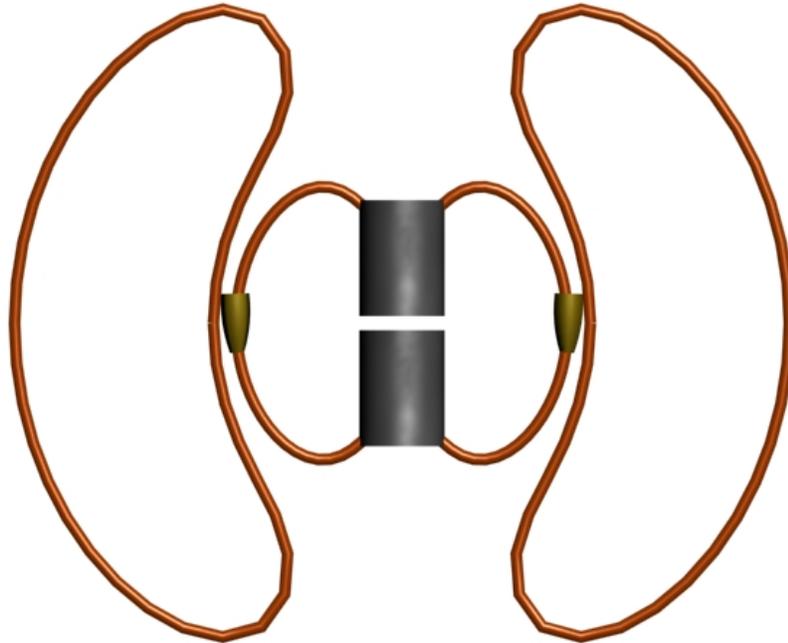


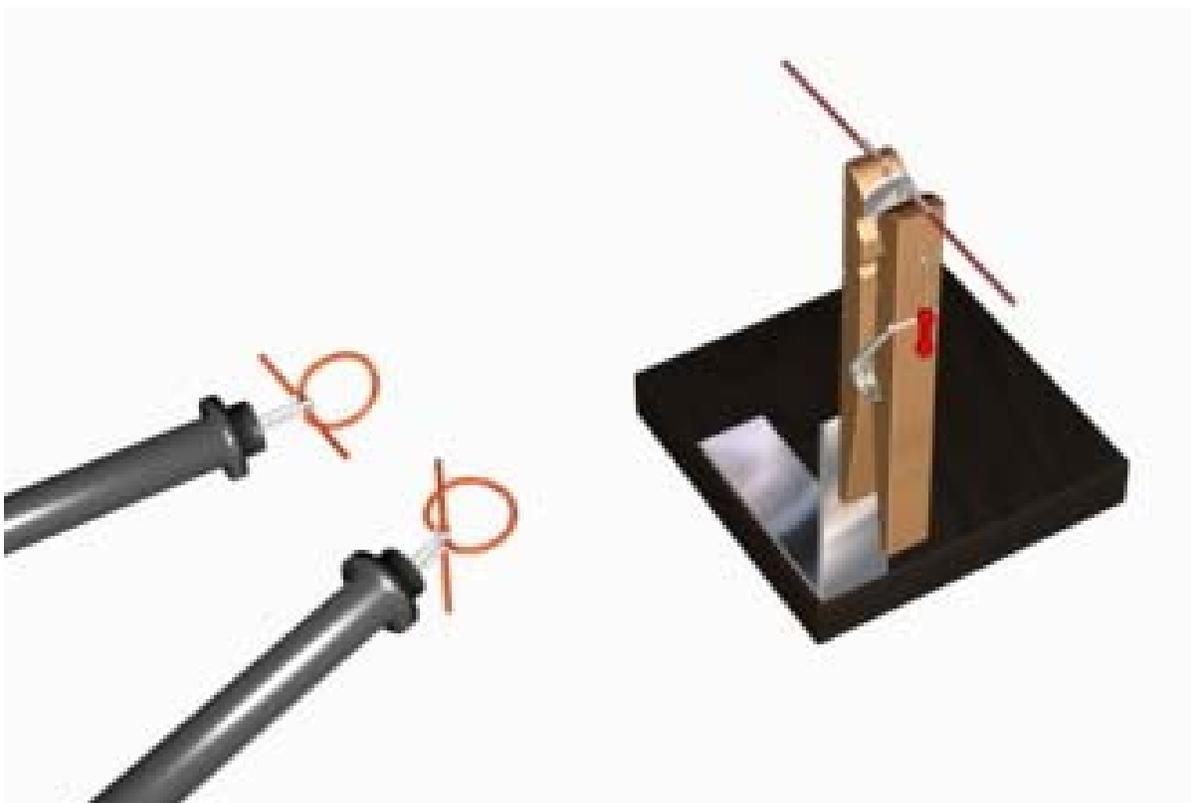
**A plane E&M wave is generated by shaking a sheet of charge up and down. At the time shown, the sheet is moving**

- 1. Up**
- 2. Down**
- 3. The sheet is not moving at this time**
- 4. Don't Have A Clue**



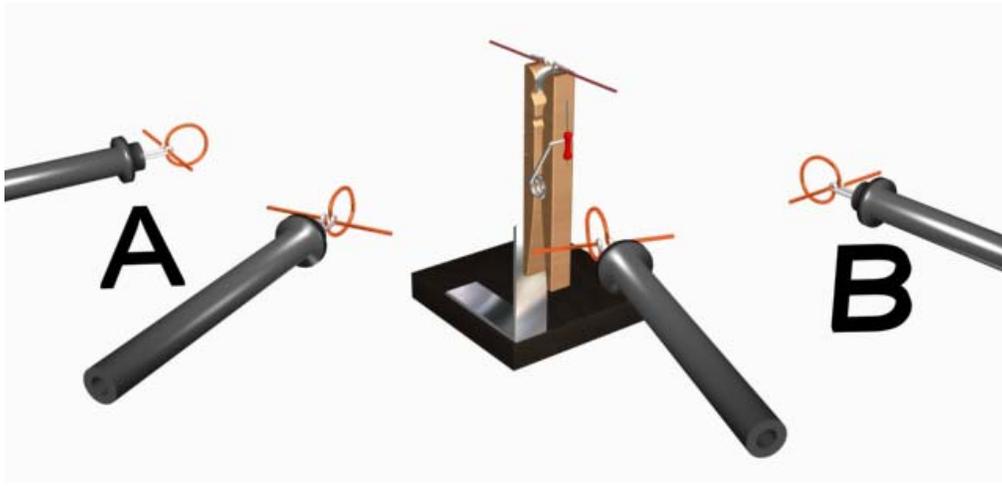
**At the time shown the charge on the top half of our  $\frac{1}{4}$  wave antenna is positive and at its maximum value. At this time:**

- 1. The current across the spark gap is about zero.**
- 2. The current across the spark gap is maximum and downward.**
- 3. The current across the spark gap is maximum and upward.**
- 4. Can't tell from the information given.**



**When located as shown, our receiving antenna sees maximum power when oriented such that**

- 1. Its straight portion is parallel to the straight portion of the transmitter**
- 2. Its straight portion is perpendicular to the straight portion of the transmitter**
- 3. Don't have a clue.**



**As we move our receiving antenna around the spark gap transmitting antenna in the manner shown in the figure, we will see**

- 1. Increased received power at position B as compared to position A**
- 2. Decreased received power at position B as compared to position A**
- 3. No change in received power when the receiver is at position B as compared to position A**
- 4. Don't have a clue.**