Use large electromagnet permanently mounted on cart. Place in the side posts of the magnet, and clamp in place, the accessory which allows one to swing a copper plate in the magnetic field. Attach to this accessory the unslotted plate, and adjust the rectangular pole pieces so that the air gap is approximately 1/4" on either side of the plate. With the DPDT knife switch open, connect the magnet to the 120 VDC line. (SEE WARNING.)

Raise the copper plate almost to the level at which it is pivoted, release, allow it to swing freely several times, and then excite the magnet (by closing the DPDT switch) at the instant the plate is at the top of its swing. The plate stops abruptly the next time it passes through the magnetic field. This fact shows that the large current induced in the plate is in such a direction that the interaction between the induced current and the magnetic field is such as to oppose the motion of the plate.

Replace the unslotted plate with the slotted plate and repeat the procedure. Bring out why the effect upon the slotted plate is very small indeed.

WARNING: (1) The current in the magnet is 12 to 15 amperes. Therefore, to avoid damaging arcs, always have the DPDT knife switch open when connecting to or disconnecting from the 120 VDC line, and always open the switch rather slowly (but not too slowly) when breaking the current. (2) Leave your watch in your office, or at least far from the magnet. (3) To minimize possible damage to the pivots, it is advisable to move the supporting assembly from the magnet to its storage place, or vice versa, only when the copper plate is removed from the swinging arm.