Bad Hair Day
Barbie doll head is stuck on a short 1/2 inch diameter bolt for weight. Head then sits on top of generator and Barbie’s hair stands on end.
Use a doll with thin straight hair.
Comb hair occasionally to remove tangles

The 1/2 inch bolt is pushed through the neck. It’s purpose is to provide enough weight to keep Barbie’s head sitting on top of the generator in the upright position.
Static Motor

This motor operates the attraction and repulsion of charges on the cans. As the rotor turns, it can carry a charge from one area to another, it picks up electrons from the generator which is highly charged and then is attracted to and deposits them on the opposite can. In operation the balls must come very close to each can but must not touch either one. This will stop its movement.

The motor is made from some simple materials, the base is wooden, a sheet of plastic forms the back section to which the motor is attached. The balls are Styrofoam with a carbon coating on them, they can be purchased from most science supply catalogs.

The center ball has a hole through the middle of it and a straw was pushed through it. the center ball is then free to rotate around a bolt that is attached to the plastic back, it turns surprisingly easy. The balls extend out from the center about 3 inches, the balls are glued onto pieces of coffee stirrer.

The assembly of balls must be
Another view of the motor.
Bell ringer, An empty can is screwed to dowel on a base. The top of the dowel is the same height as the top of the generator. A piece of wire sits in a small hole drilled through the can and into the dowel. This supports a little bell on a string, it will bang back and forth between the cans when sitting near generator. Touch bell to start the action.
Little pie pans fly off top of generator one at a time. Sections are cut from aluminum 6 cup cupcake pie pan. Pans do not fit well on soda can top without sliding off so first pan sitting directly on generator is weighted down with a quarter, then stack others. All fly off except the heavy one.
Fluorescent tube  A small tube 6v light available from Kmart lanterns will flash when brought near the generator.
Volta’s Hailstorm

This device is designed to be used with the baby Vandegraaff generator, it will also work with a full sized one.

When this device is held above the Vandegraaff generator, the pith balls inside will bounce up and down quite vigorously as they are alternatively attracted and repelled by the two oppositely charged surface. The device works better if the can on the device is grounded by holding it in place.

The empty soda can needs to still have the tab on it.
The round disk is an old CD that is covered with aluminum tape. A slit is cut in the center and the soda’s tab fits through it.

A rubber band is treaded through the tab’s hole. This will hold the device together.
A second CD is also covered with Aluminum tape. The hole in the center is not covered.

Cut and bend a paper clip to the shape shown at the right. The notch will sit in the center of the second CD and will serve as an anchor to hold the rubber band.

Both CD have the Aluminum foil towards the inside of the Volta’s hailsorm.
2 liter soda bottle, clean and remove the label, use lighter fluid or WD40 to remove the excess glue. Cut to about 3 & 1/2 inches.

The 4 to 8 balls inside are called pith balls. They can be purchased from science supply catalogs. Other materials will work also such as bits of foam.

The rubber band holds the whole device together. A short piece of tape should be added over the piece of wire to keep the notch section in the center of the CD.