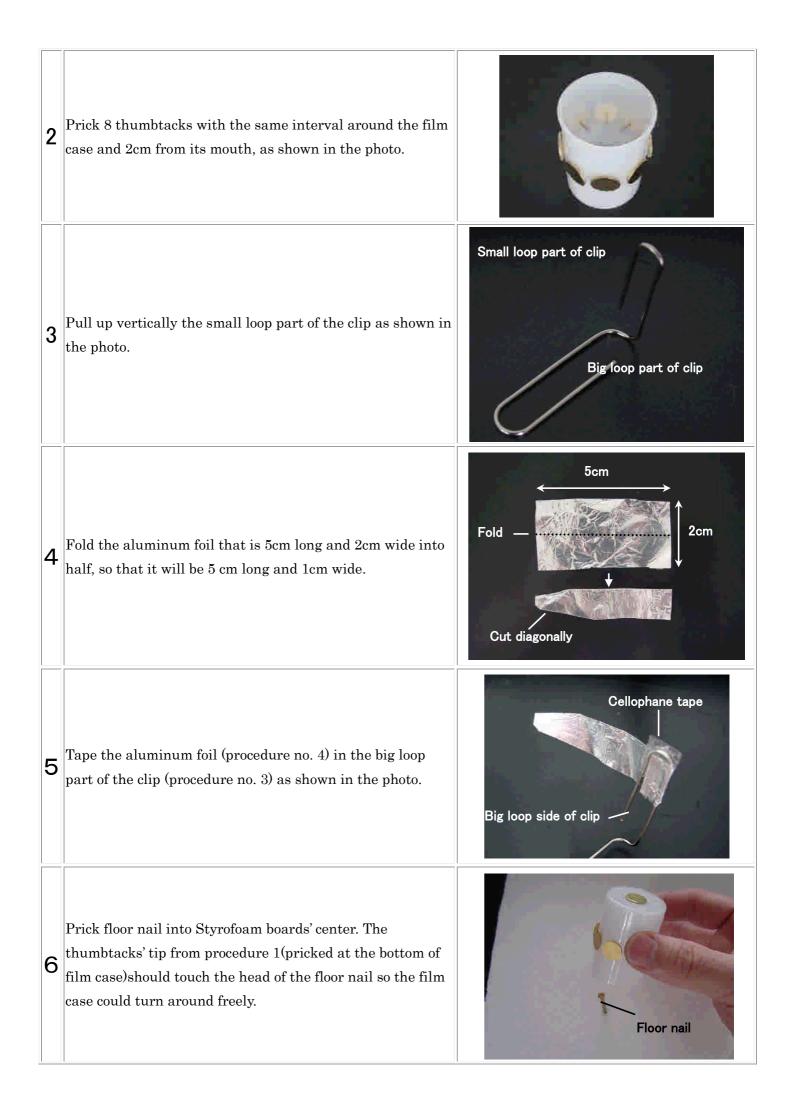


1 Prick the thumbtack from outside into the center of the film case bottom.





Tape procedure5's clip to Styrofoam board using cellophanetape. The tip of the aluminum foil should be at least 2mm away from the pricked thumbtacks.



Experiment: Try to make the film case rotate!

Charge the PVCpipe by rubbing the felt pad to the pipe many times. Touch one of the paper clips with your finger then place the rubbed PVCpipe near the other paper clip.



Rub the PVC pipe many times!



Place rubbed PVC pipe near the paper clip gently.

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"Quick turn", "long turn" is what I wonder. What if we use another object other than PVC? Let's experiment with many different objects.

Information

Repulsive force makes it turn!

Static electric charge from the PVC pipe passed through the aluminum foil to the thumbtack. Since the aluminum foil and the thumbtack have the same charge, they repel each other making the film case with thumbtacks to rotate. The repulsive force makes the motor rotate. In addition, the motor rotates in either direction.

 $igodoldsymbol{\Phi}$ PVC pipe, nails, etc., can be purchased at home center shops $_{\circ}$