THE REVOLVING CIRCLE

You need:
White cardboard
Scissors
Sharpened pencil stub
Felt-tip pen
Coin

What To Do
From a piece of white cardboard, cut a circle about six inches (15cm) in diameter. Make a hole at the center so you can push through a sharpened pencil stub to make a top. With a felt-tip pen, draw a black circle on the disk by outlining the coin.
Can you guess what you will see when you spin the top?

Answer:
Two small concentric circles!

Why does it work?
The picture shows that a diameter (AB) drawn through the center of the small circle, will intersect it at two spots. When the disk is spinning, those spots travel an almost straight line compared to other points along the little circle. Thus your eyes see them for a longer period of time long enough to generate the two large circles on the disk.