Bill's Ball Bearing Burr

Designed by Bill Cutler 1986, spin + level 3.
(Red Oak with two steel ball bearings, 3.5 inches)

Spin the puzzle in the orientation shown (around the axis defined by E and F) to position the balls, and then the two halves A,C,F and B,D,E can slide apart with three moves:

X marks the location of one ball and Z the location of the other.