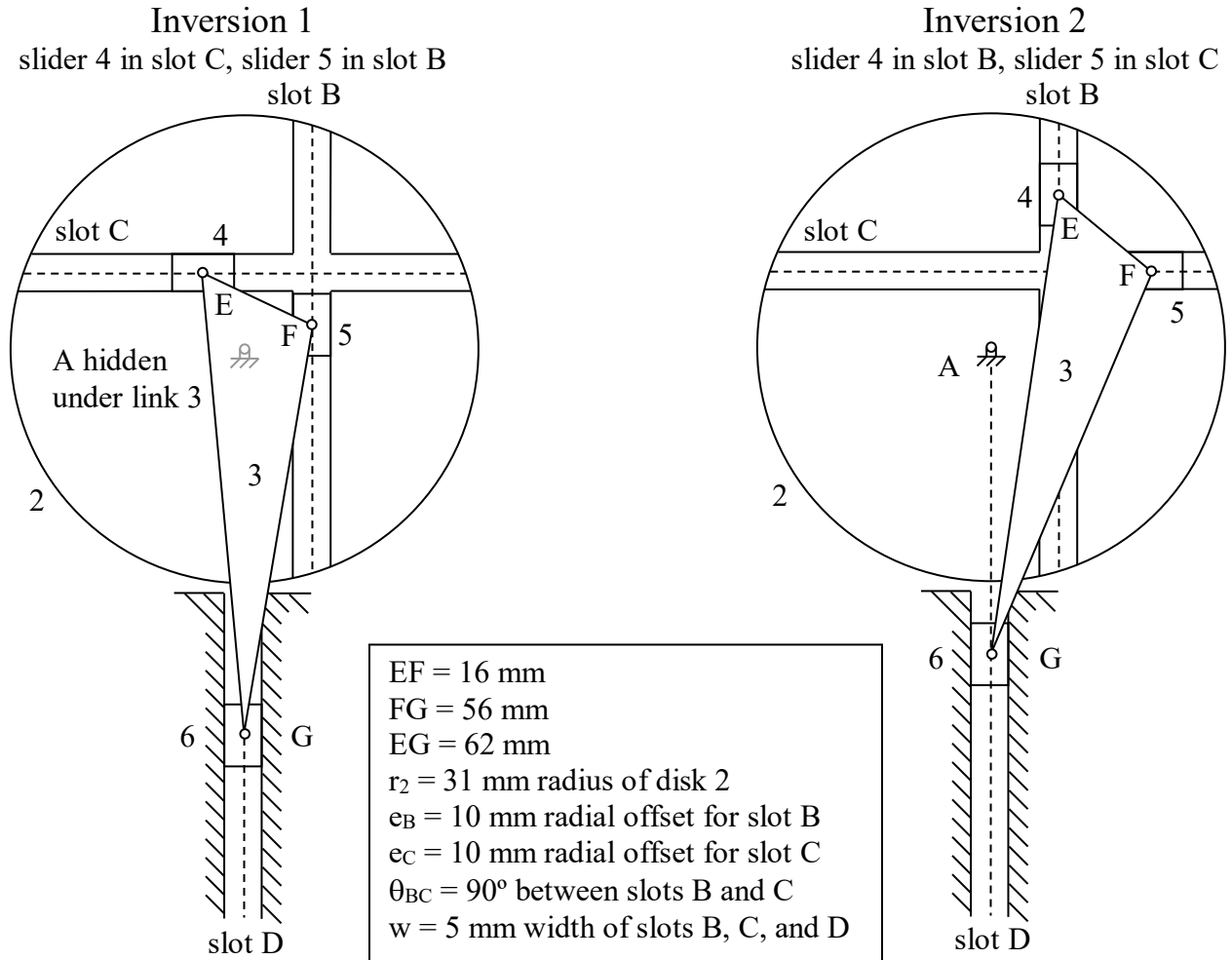


1) Use Working Model (WM) to model the two inversions of the Wanzler needle bar mechanism shown below. Provide position, velocity and acceleration MATLAB graphs for point G as a function of rotation angle with disk 2 rotating at constant 240 rpm CW. Attach a screen shot of your WM mechanism and provide hard copy of your code.

Which of these inversions would be used for a sewing machine? Why?



2) Check your WM velocity solution for Inversion 2 using instantaneous centers at the position shown below with disk 2 rotating at constant 240 rpm CW. The mechanism is drawn to scale full size. Show your work.

V_G _____

