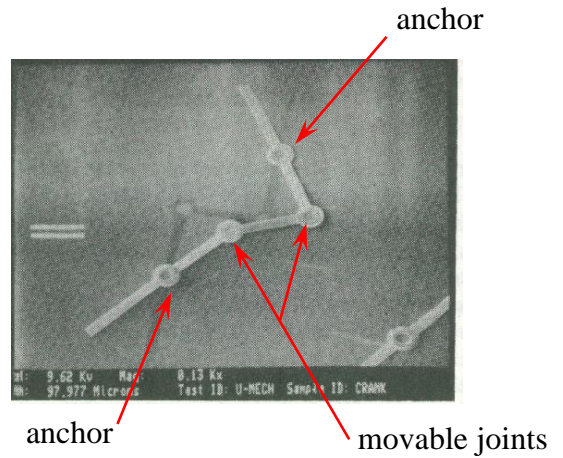


1. **Surface Micromachining:** Please (1) draw the cross-section view for the structure with 3 cranks and four joints (two fixed joints and two movable joints) shown below, and (2) design the related fabrication processes. Note: the movable joint is a self-constraining joint.



2. **Surface Micromachining:** Please show the three different hinge designs in this scanner. Suggest: you could find the related designs in journal or conference papers.

