

**FIGURE P2-15**

Problem 2-34 Power hacksaw Adapted from P. H. Hill and W. P. Rule. (1960). *Mechanisms: Analysis and Design*

- 2-34 Figure P2-15 shows a power hacksaw, used to cut metal. Link 5 pivots at O_5 and its weight forces the sawblade against the workpiece while the linkage moves the blade (link 4) back and forth within link 5 to cut the part. Sketch its kinematic diagram, determine its mobility and its type (i.e., is it a fourbar, a Watts sixbar, a Stephenson's sixbar, an eightbar, or what?) Use reverse linkage transformation to determine its pure revolute-jointed equivalent linkage.