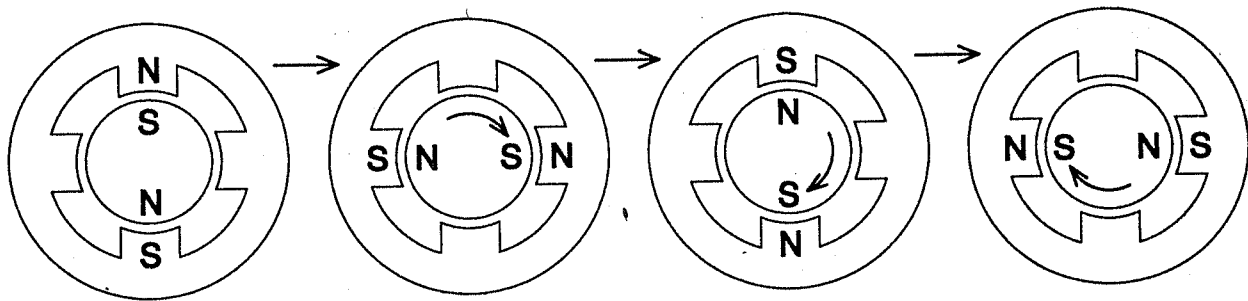
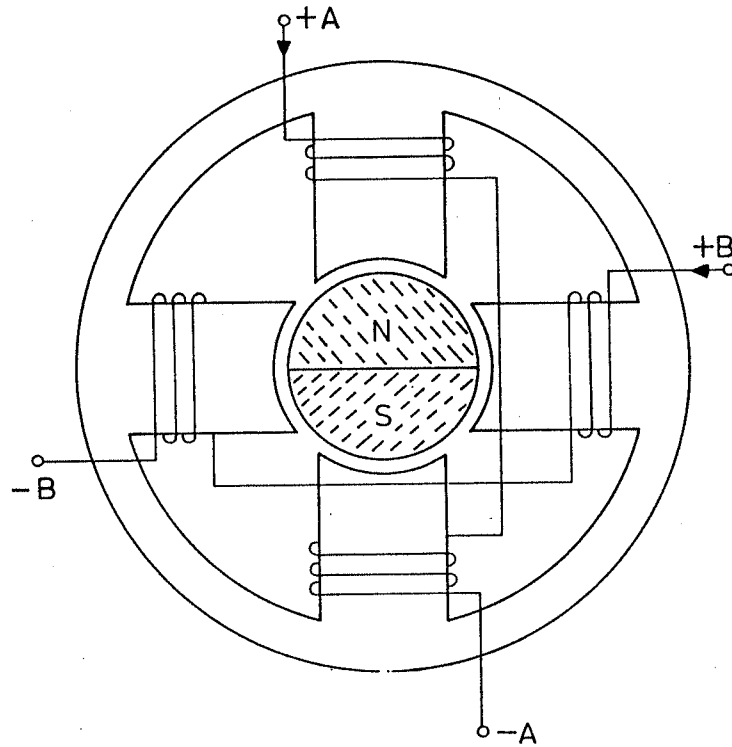
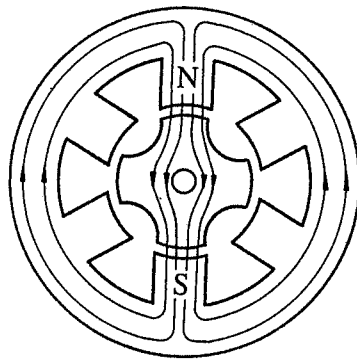
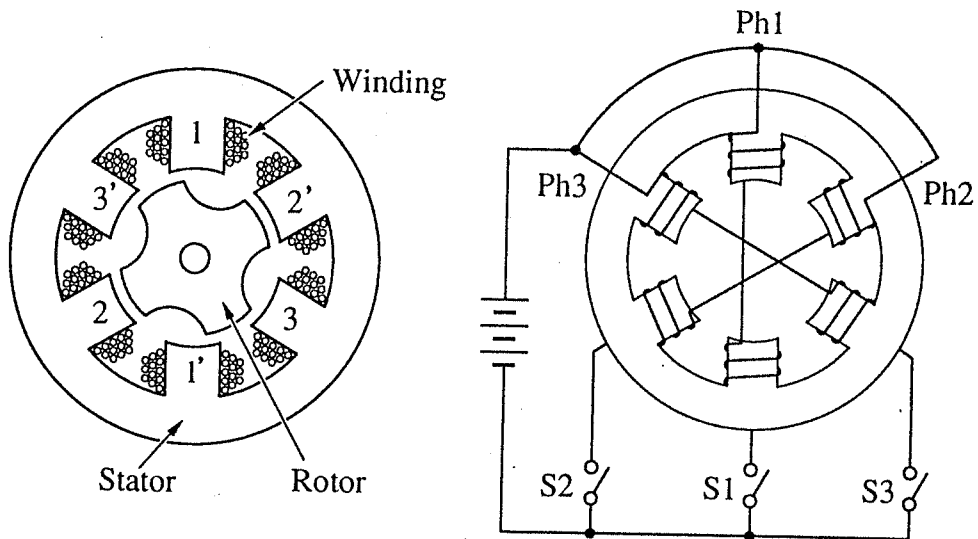


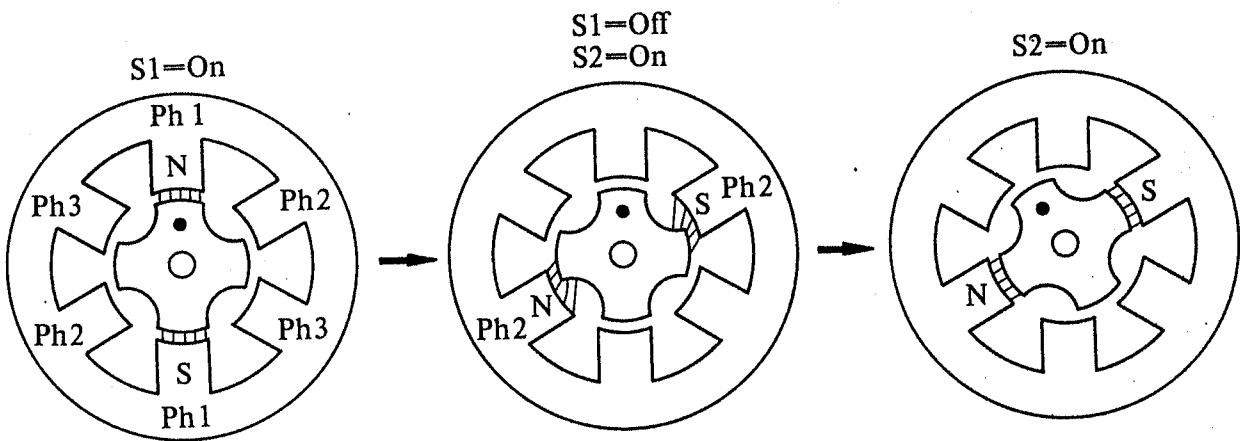
Permanent Magnet Stepping Motor



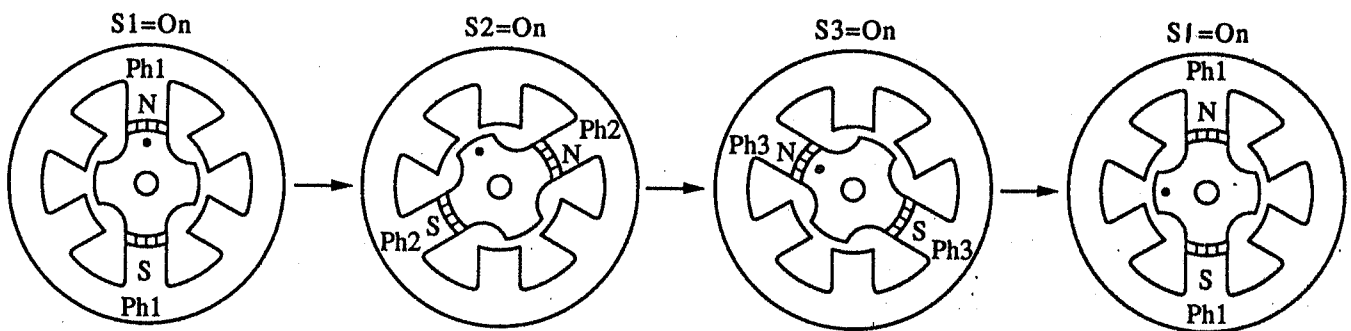
Variable Reluctance Stepping Motor



Variable Reluctance Stepping Motor

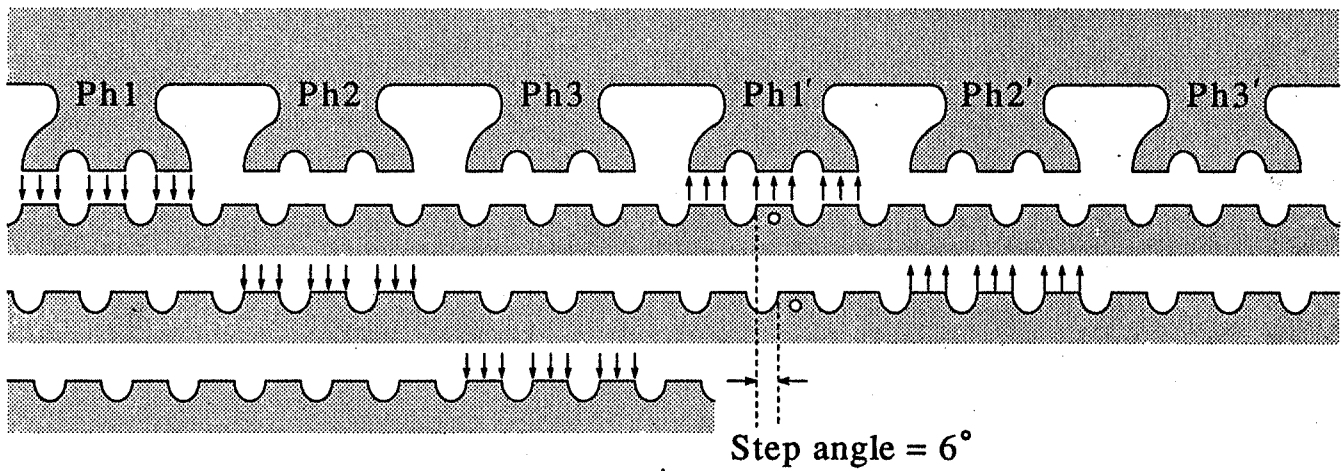
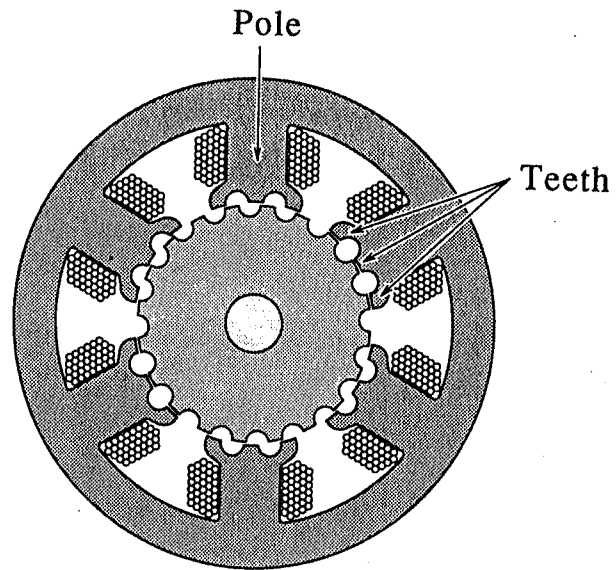


Single Step

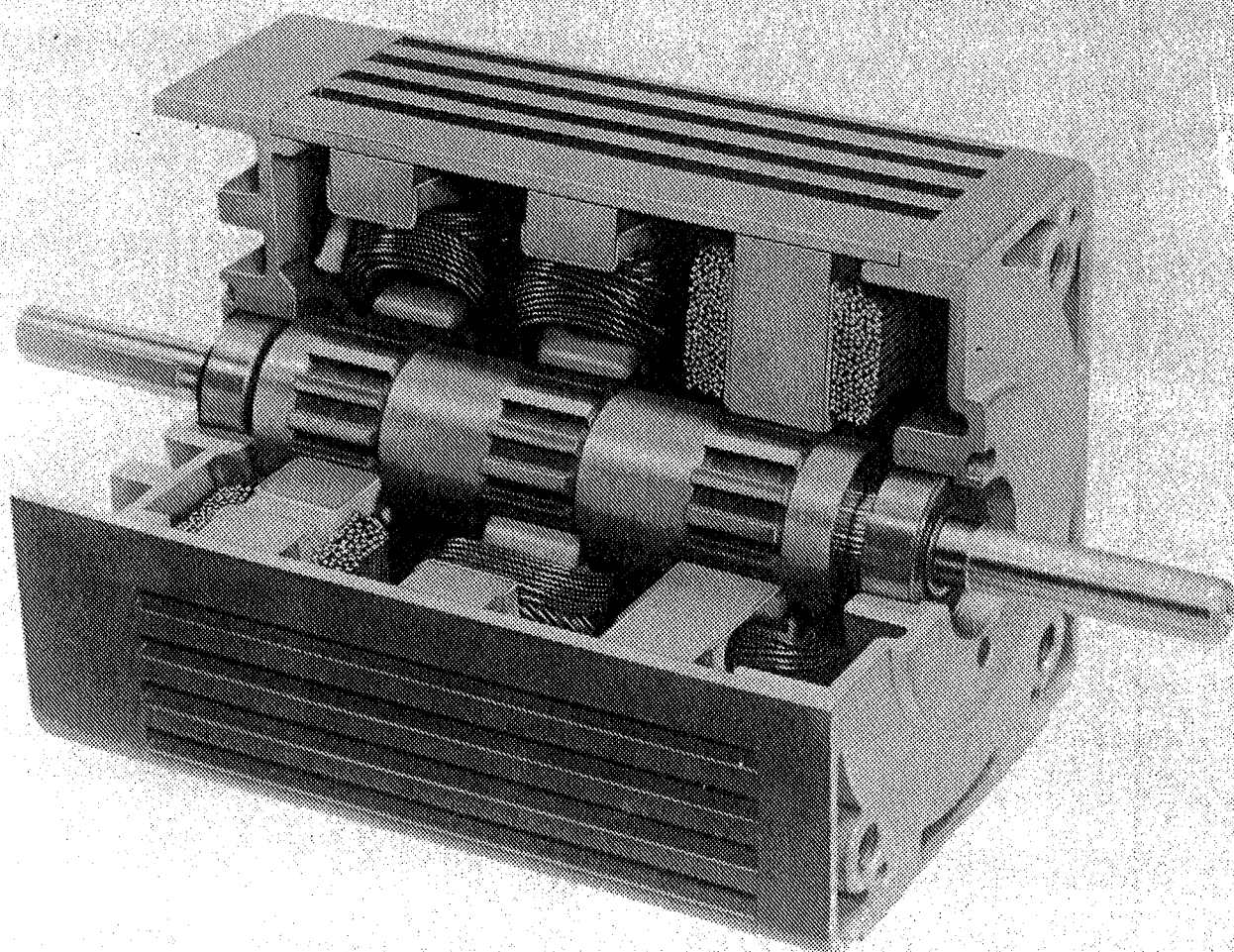


Stepping Sequence

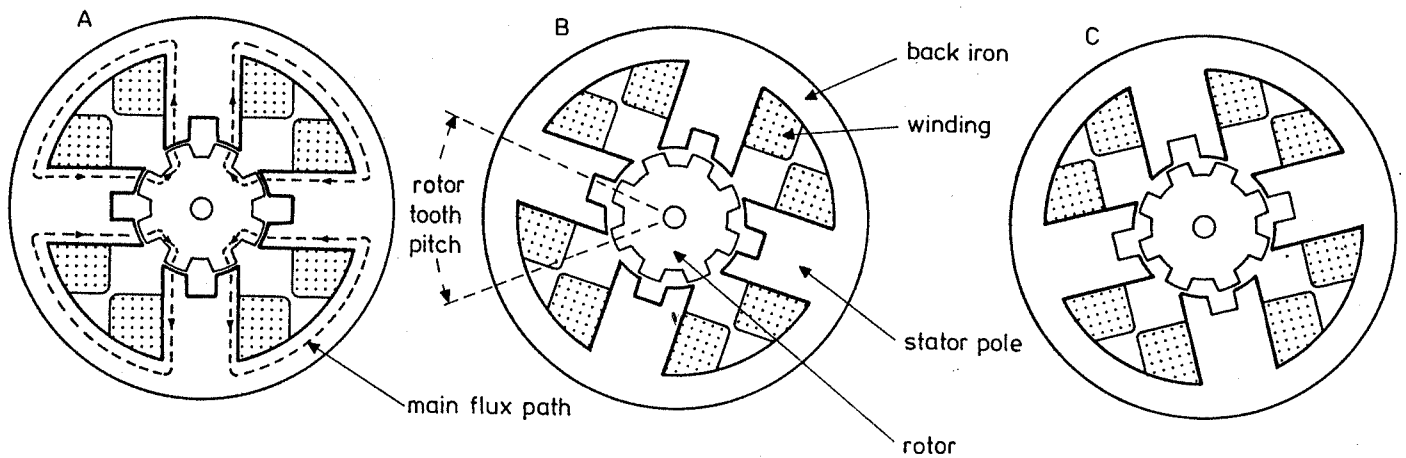
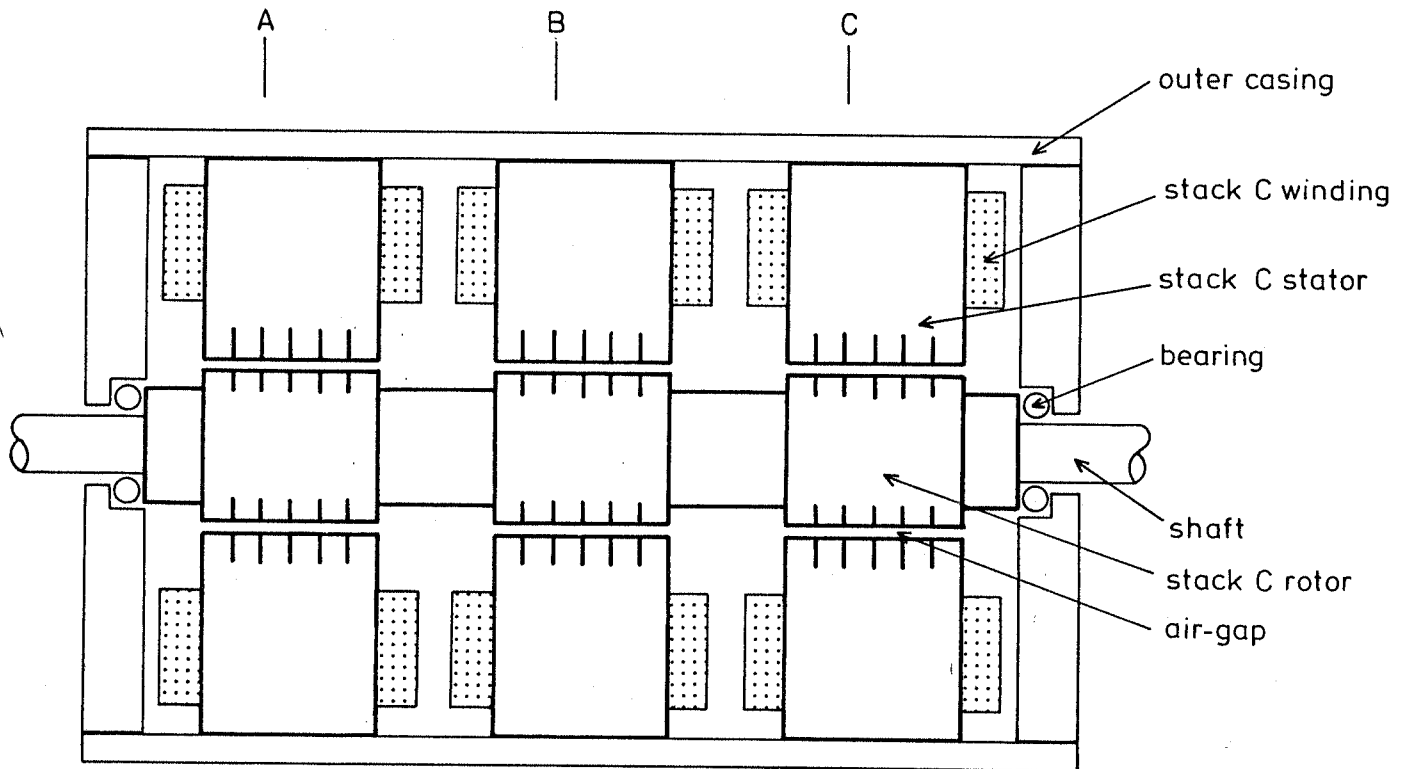
Castelated Poles



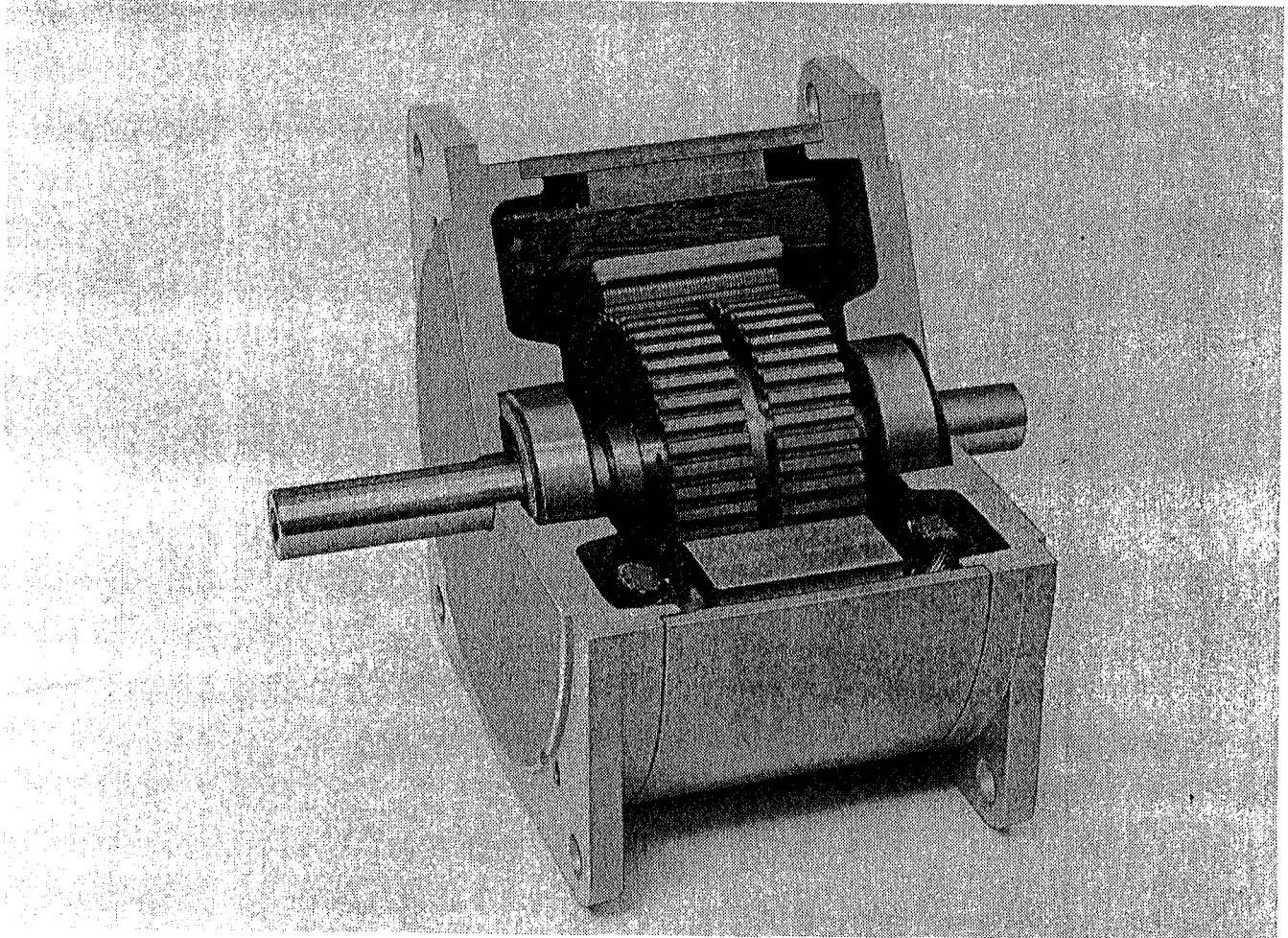
Multi-stack VR Stepping Motor



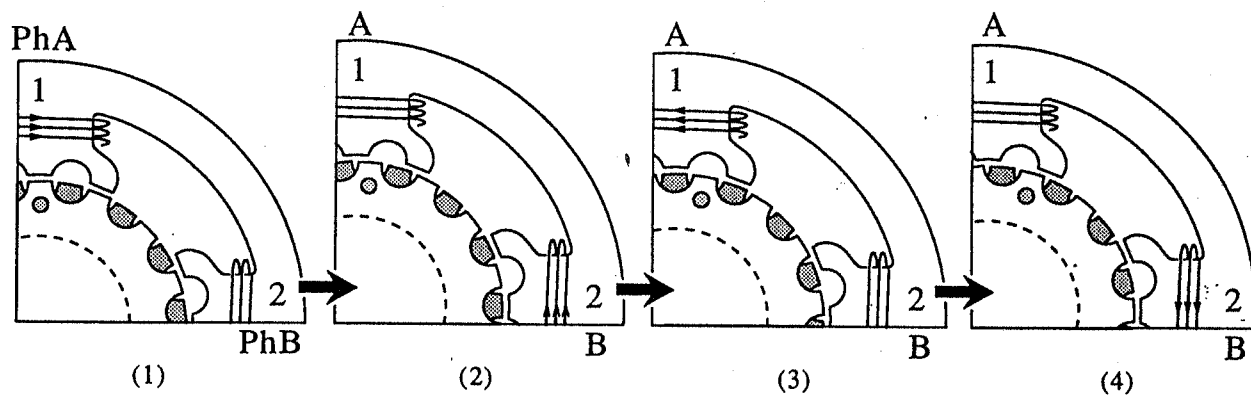
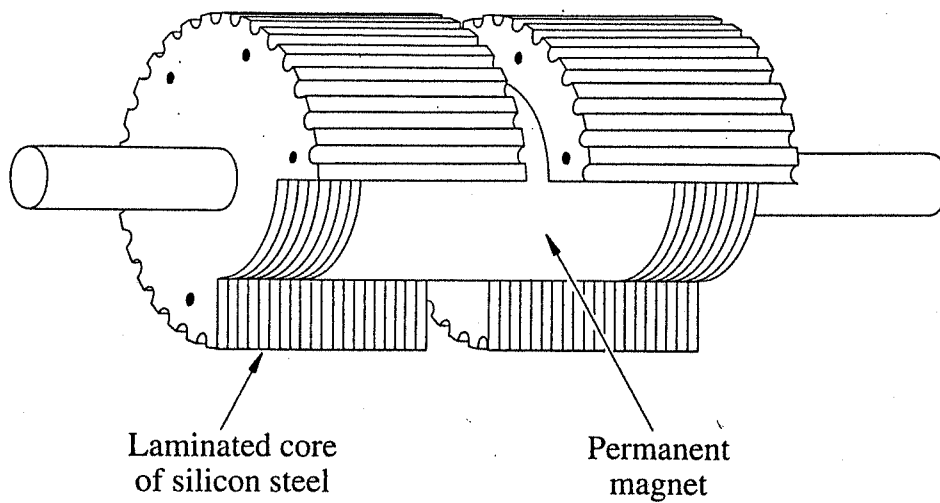
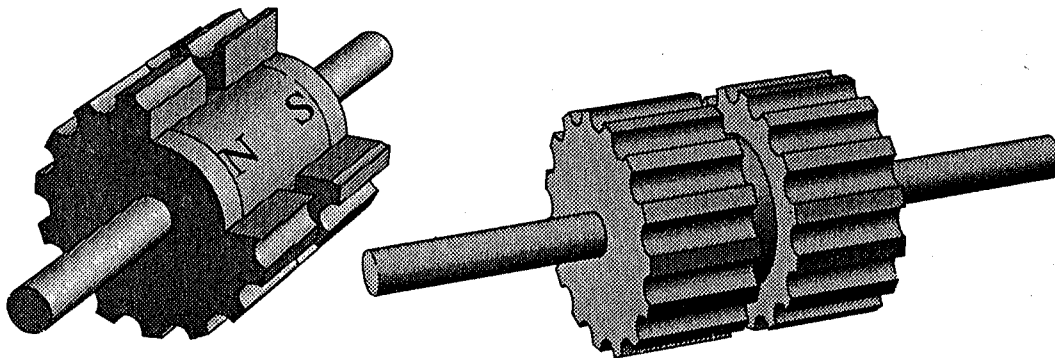
Multi-stack VR Stepping Motor



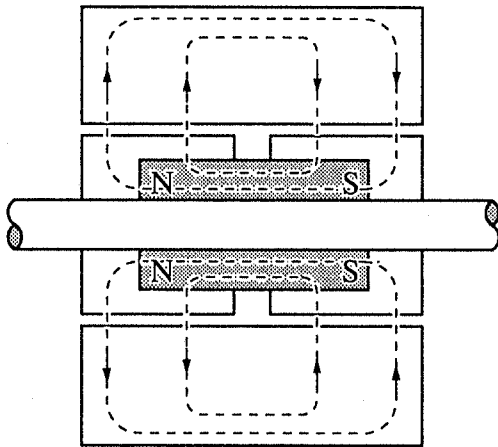
Hybrid Stepping Motor



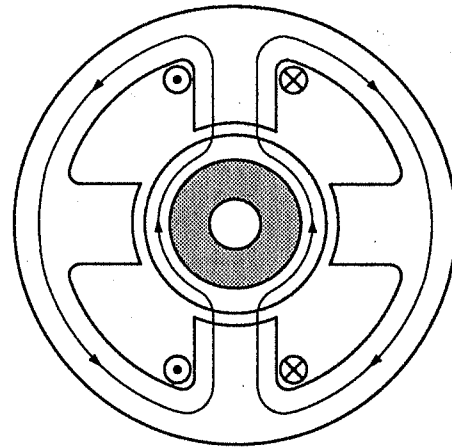
Hybrid Stepping Motor



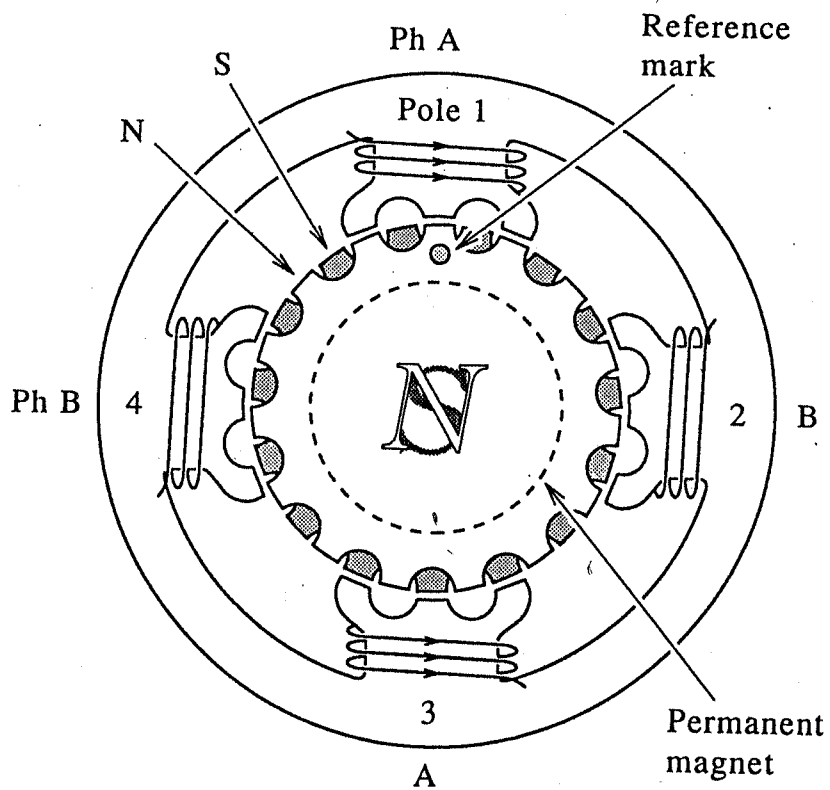
Hybrid Stepping Motor



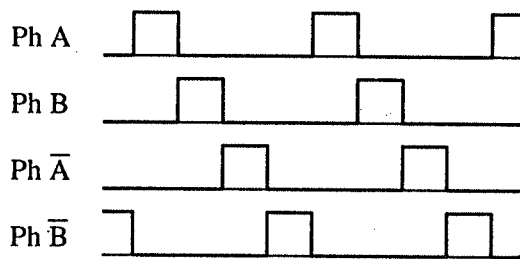
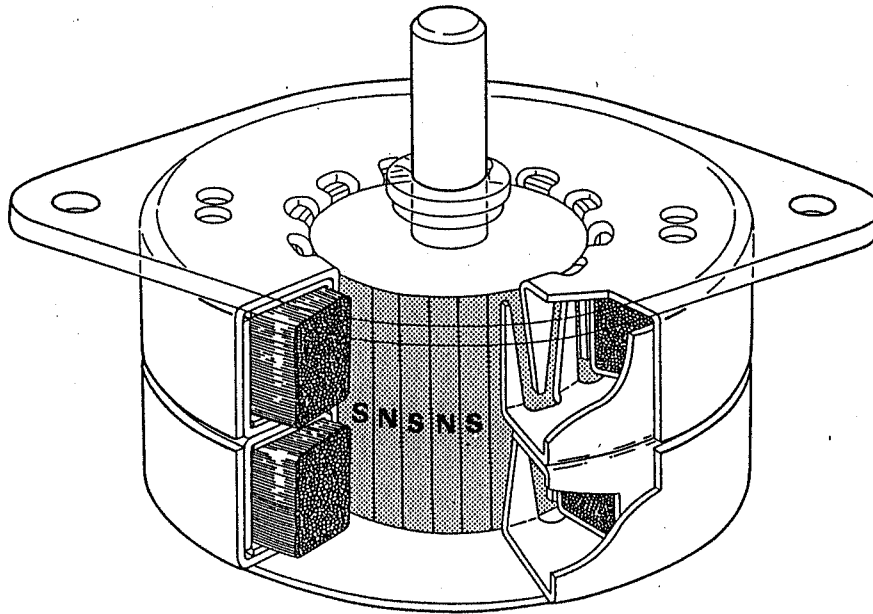
(a)



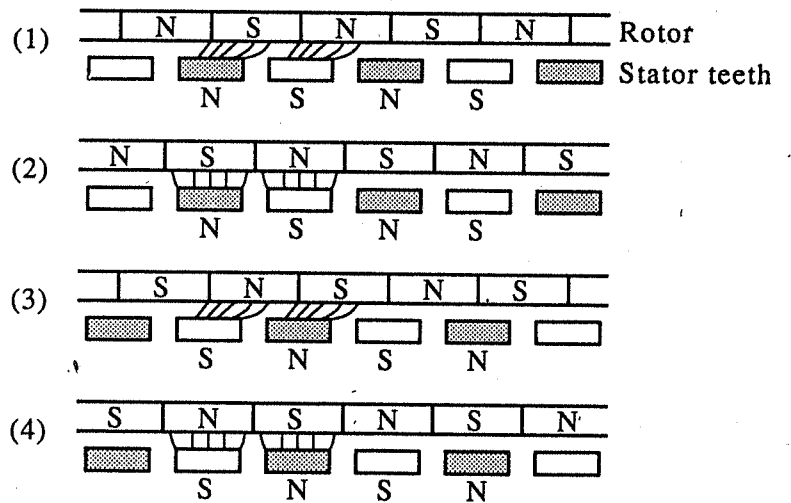
(b)



Claw-tooth PM Motor

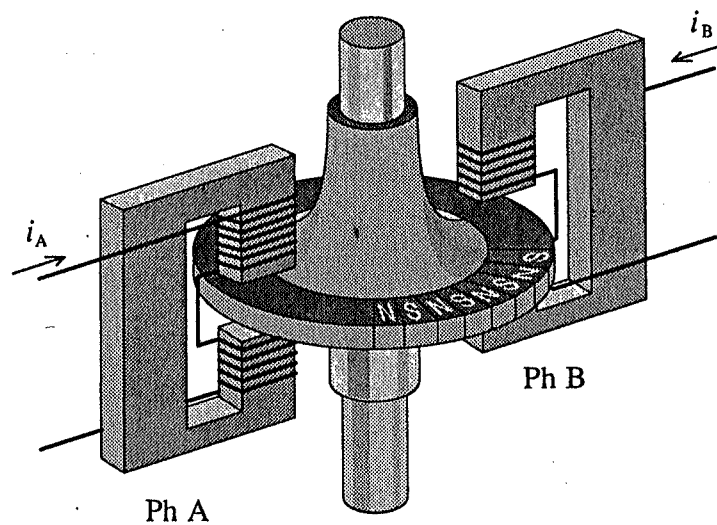
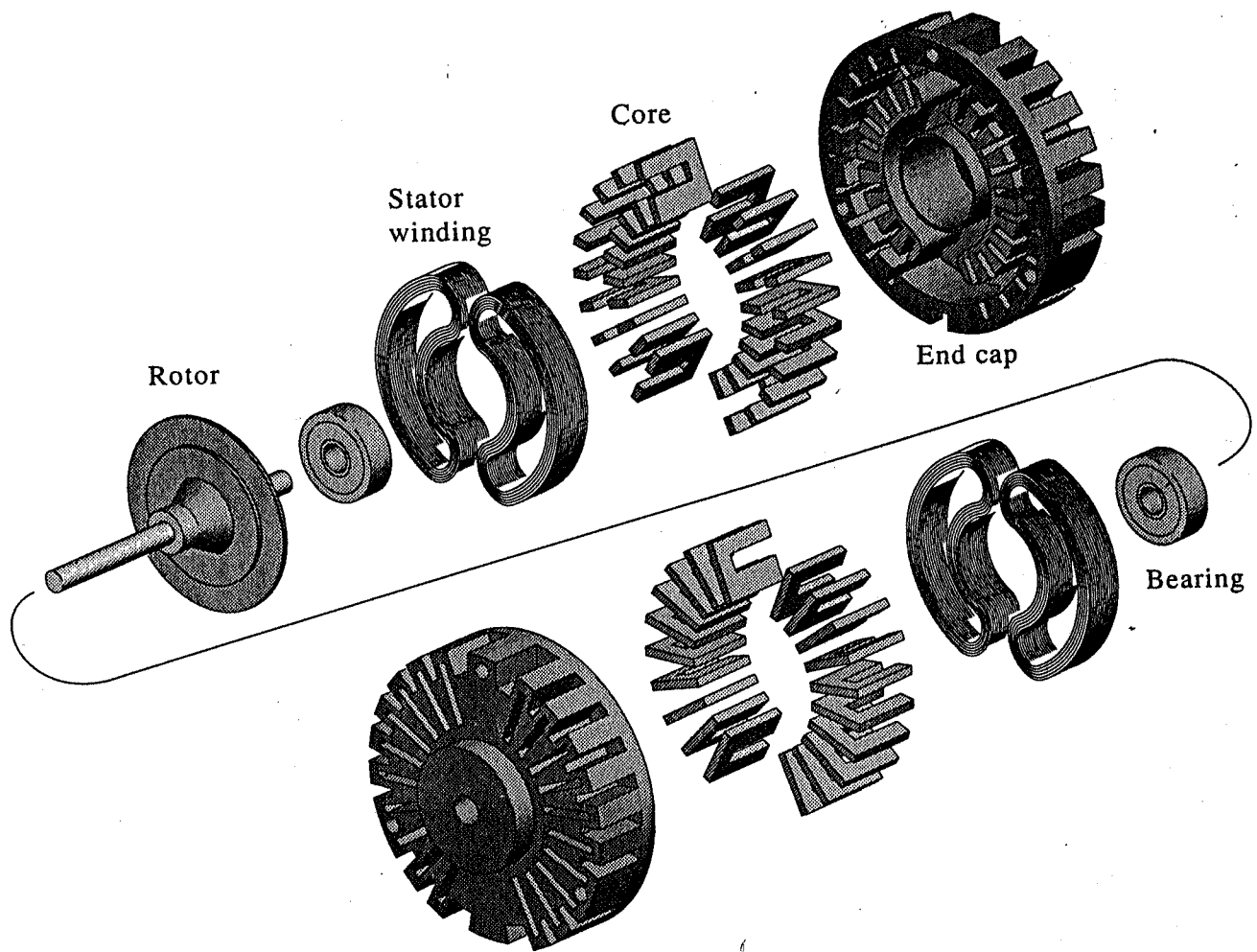


(a)

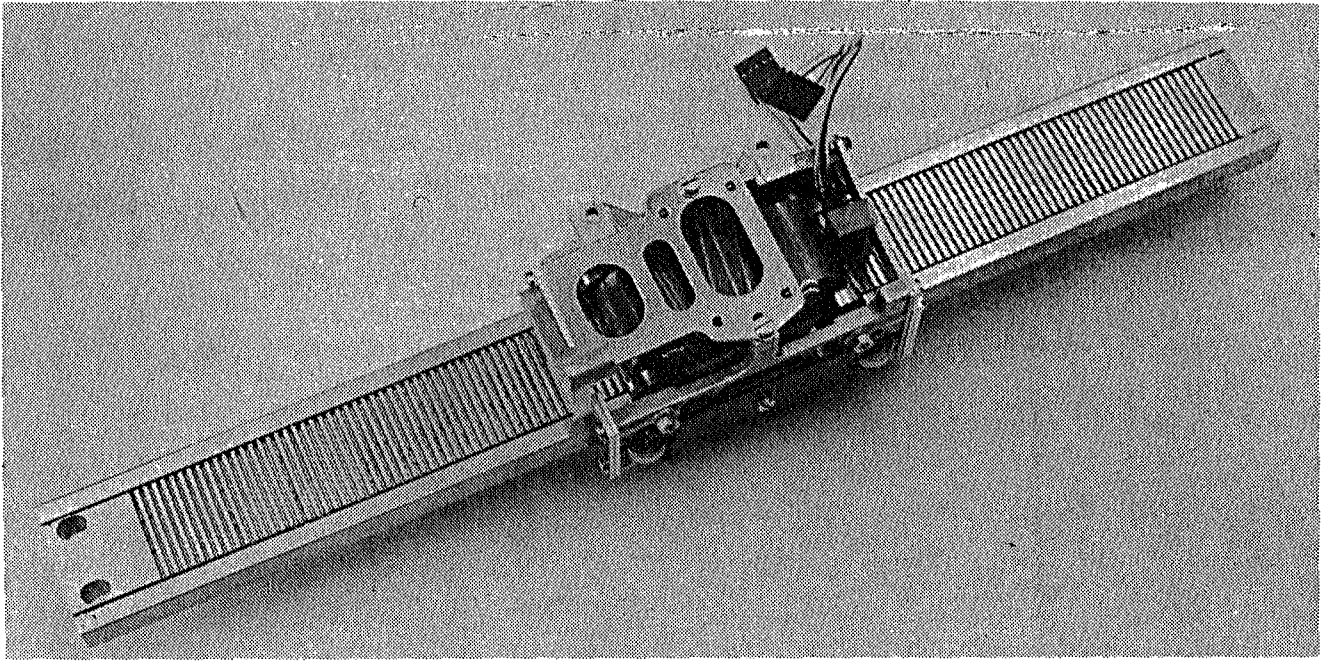


(b)

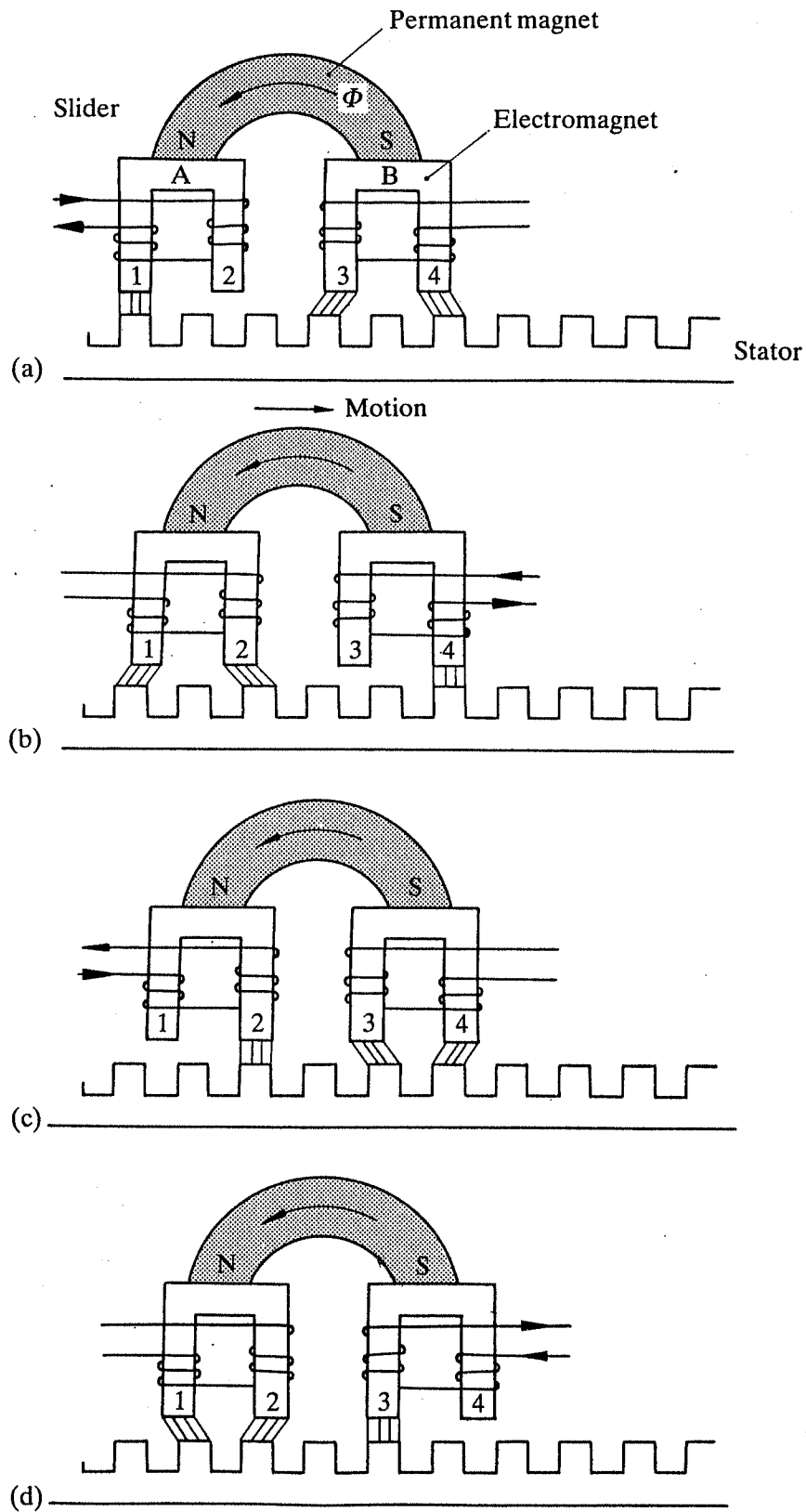
Disk Magnet Motor



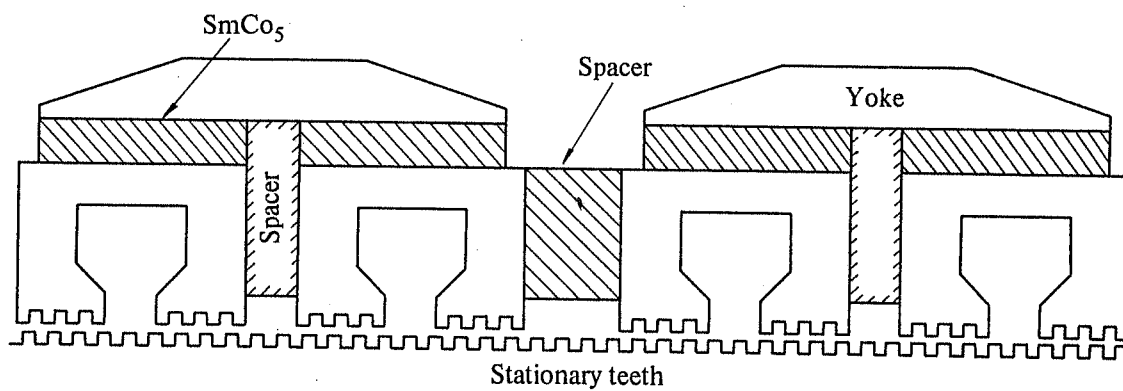
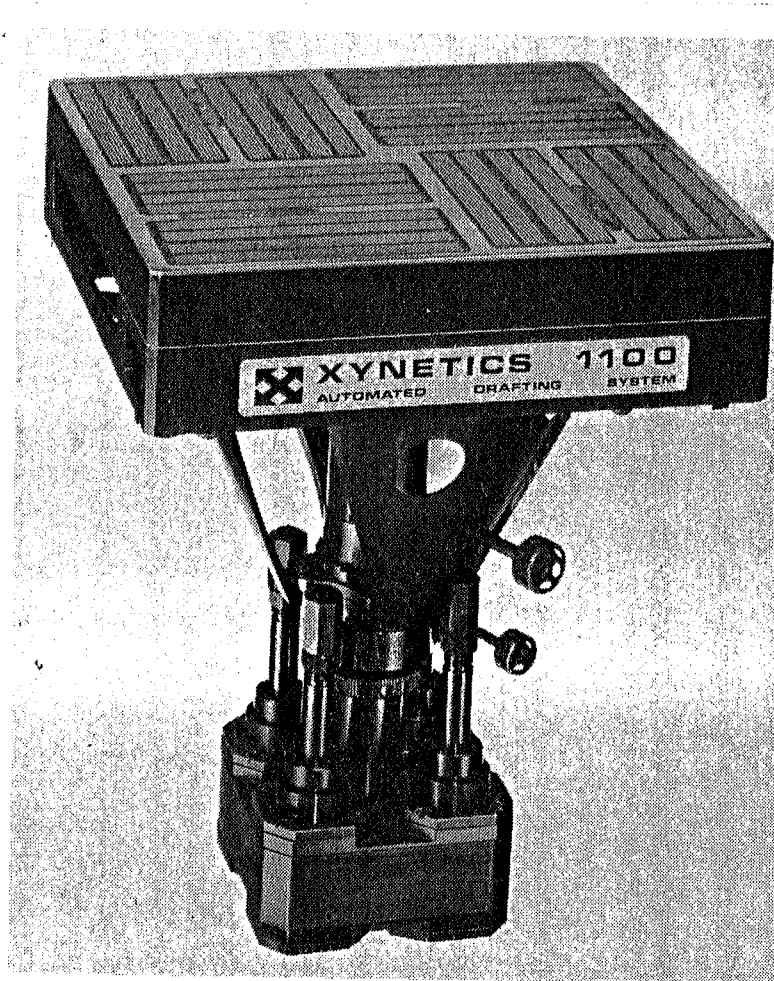
Linear Stepping Motor



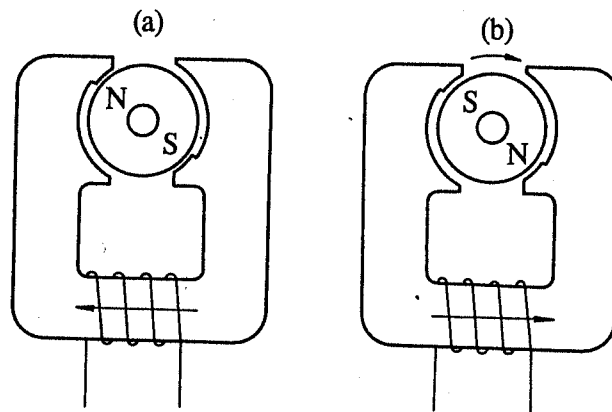
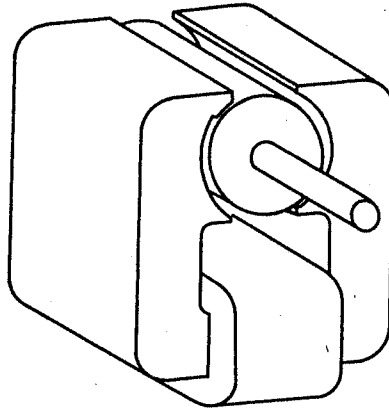
Linear Stepping Motor



Two Dimensional Motor



Single Phase Stepping Motor



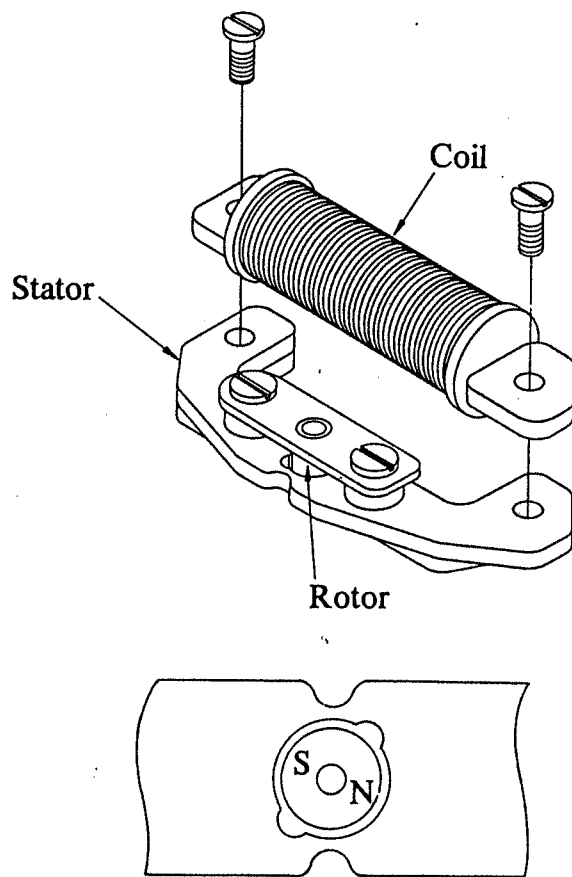


FIG. 2.71. A single-phase stepping motor used in a wrist-watch.

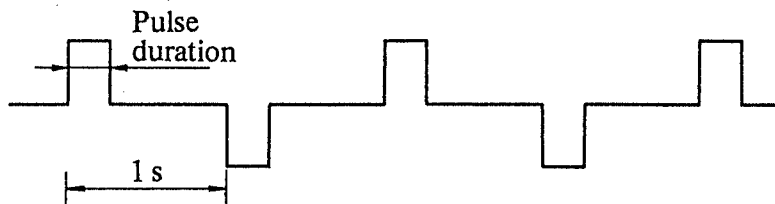


FIG. 2.72. Voltage waveform applied to a watch stepping-motor.