

Fig. 1: Field of a cylindrically formed solenoid

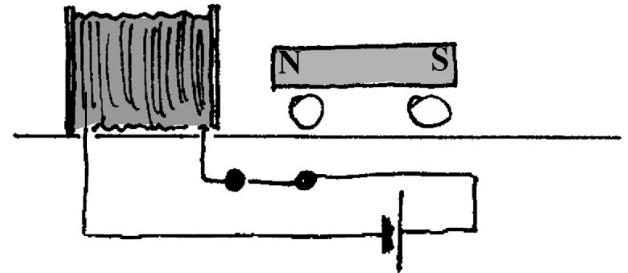


Fig. 2: The field pushes the magnet to the right.

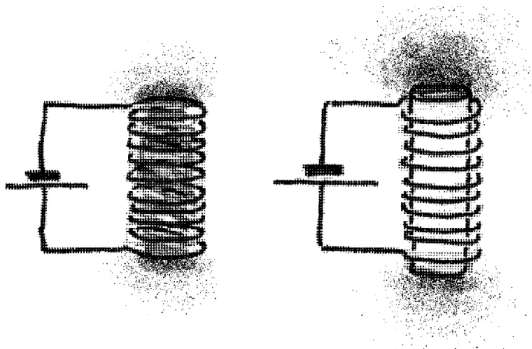


Fig. 3: The magnetic field is forced out of the coil by the iron core.

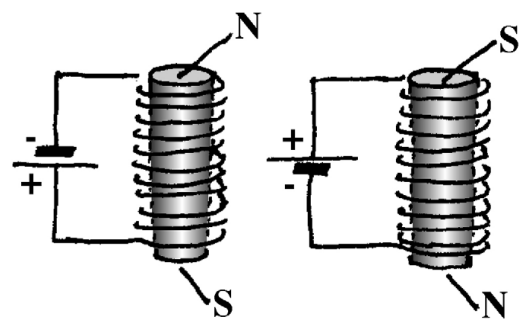


Fig. 4: If the direction of the electric current in the coil is reversed, the poles of the magnet are interchanged

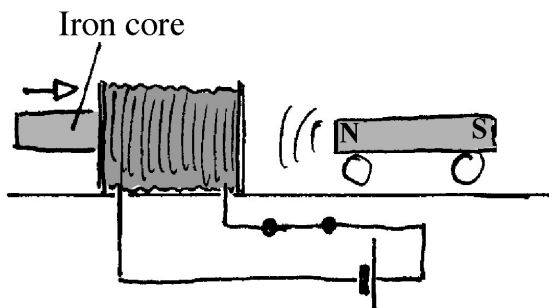


Fig. 5: If an iron core is inserted into the solenoid, the magnet moves even further to the right.

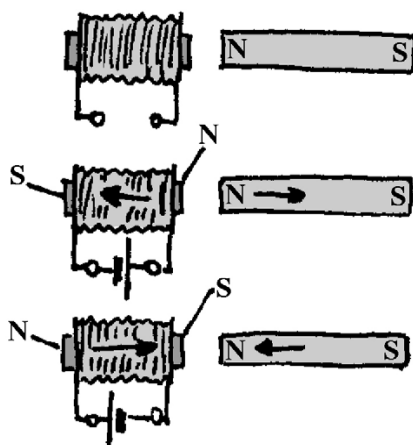


Fig. 6: Electromagnet and permanent magnet

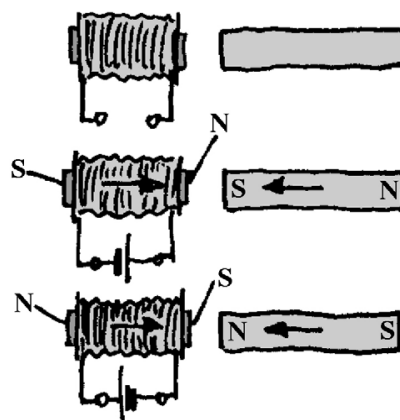


Fig.7: Electromagnet and soft iron

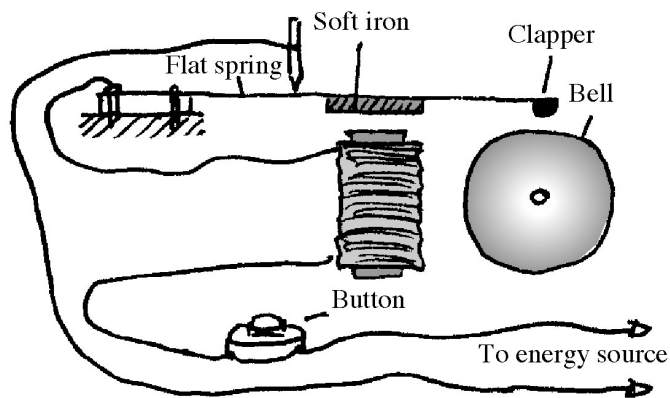


Fig. 8: An electric bell

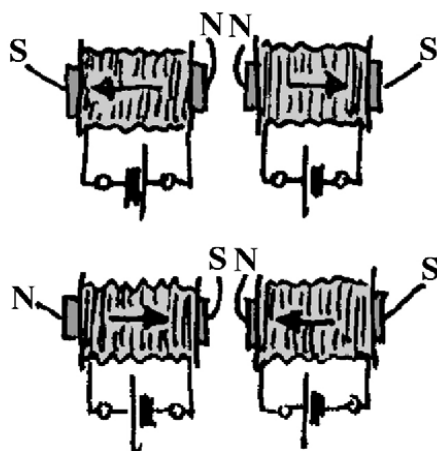


Fig. 9: Two electromagnets

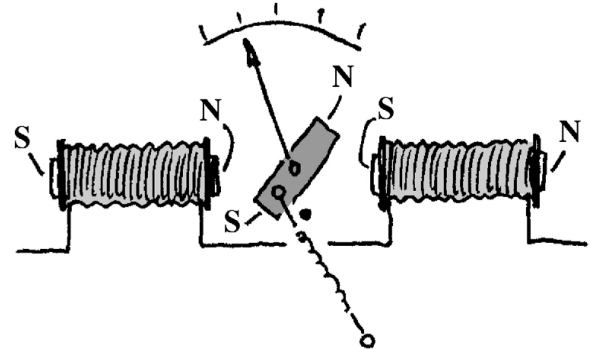


Fig. 10: How an ampere meter works

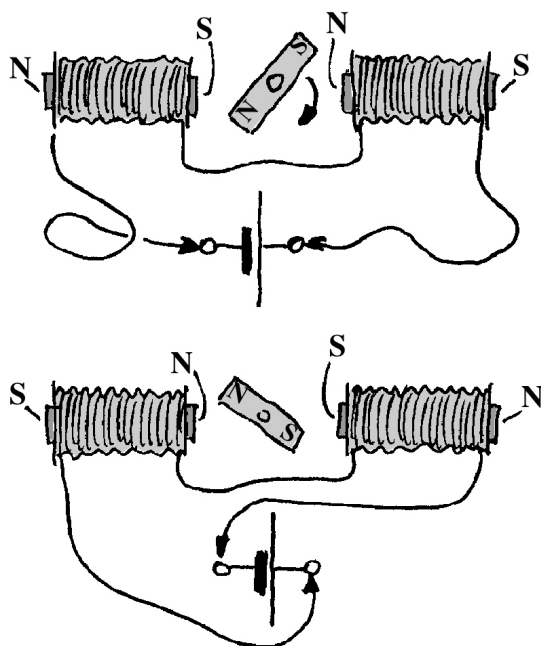


Fig. 11: Principle of operation of an electric motor

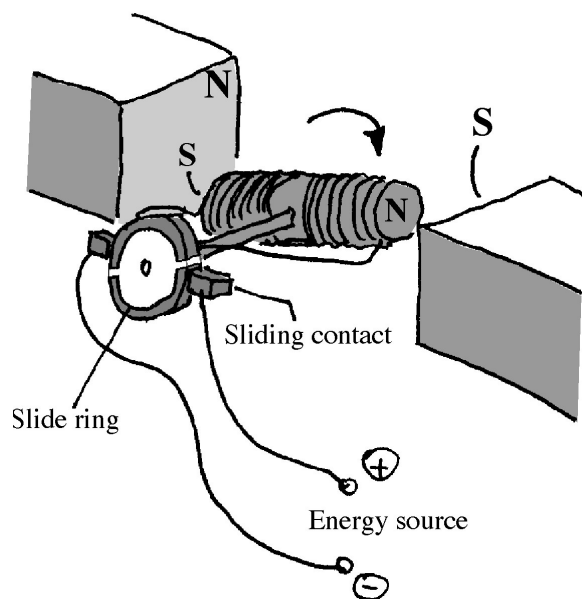


Fig 12: An electric motor