

Chapter 8

PIPING AND PUMPS

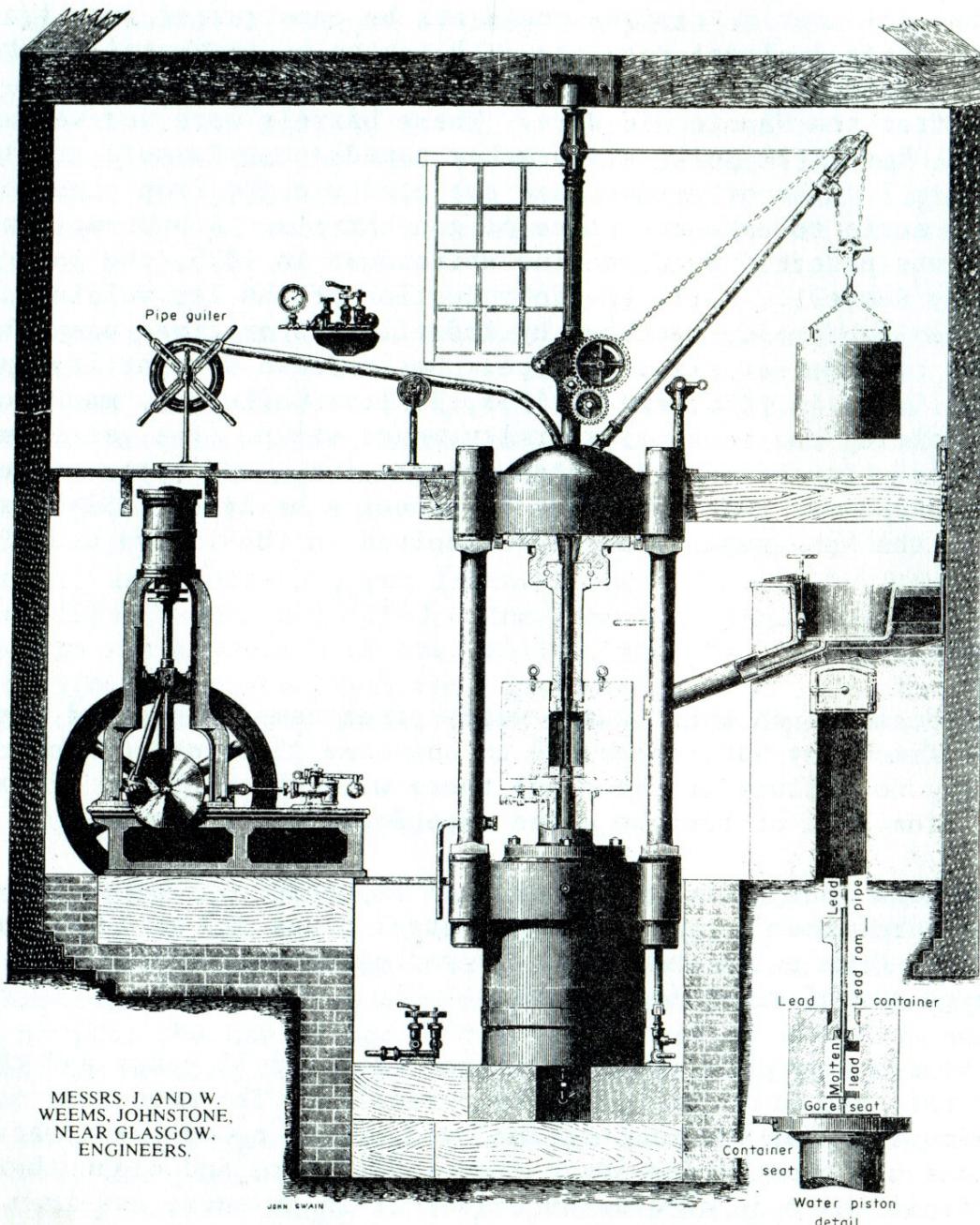


Fig. 8.1. Machine for making lead pipe (1883).

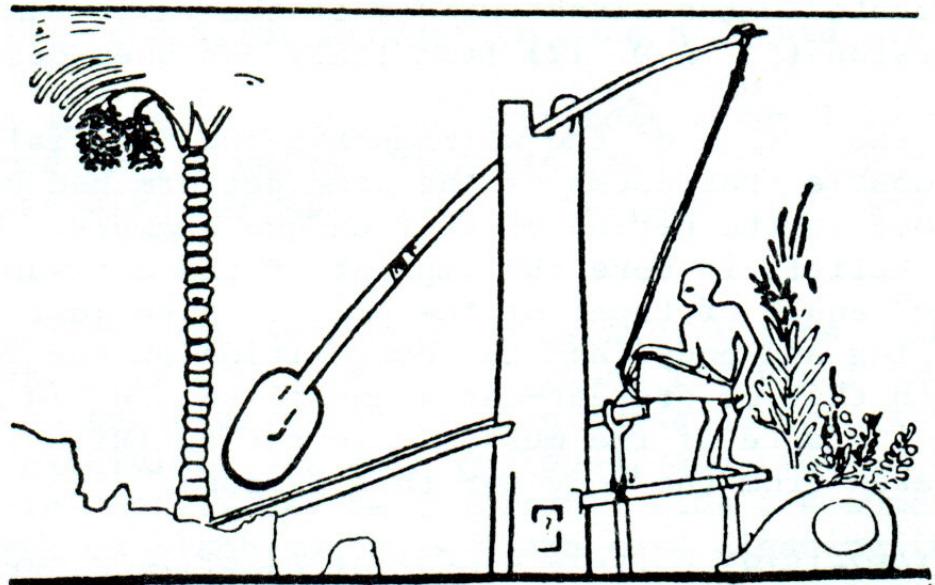


Fig. 8.2. Shaduf, 1500 B.C.

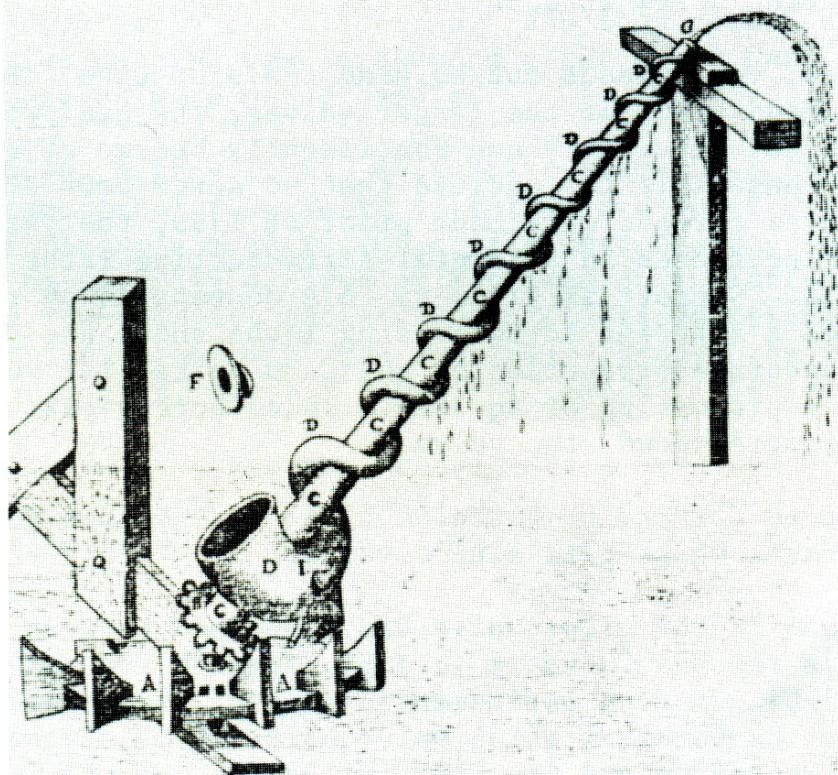


Fig. 8.3. Archimedes' spiral screw (c. 230 B.C.).

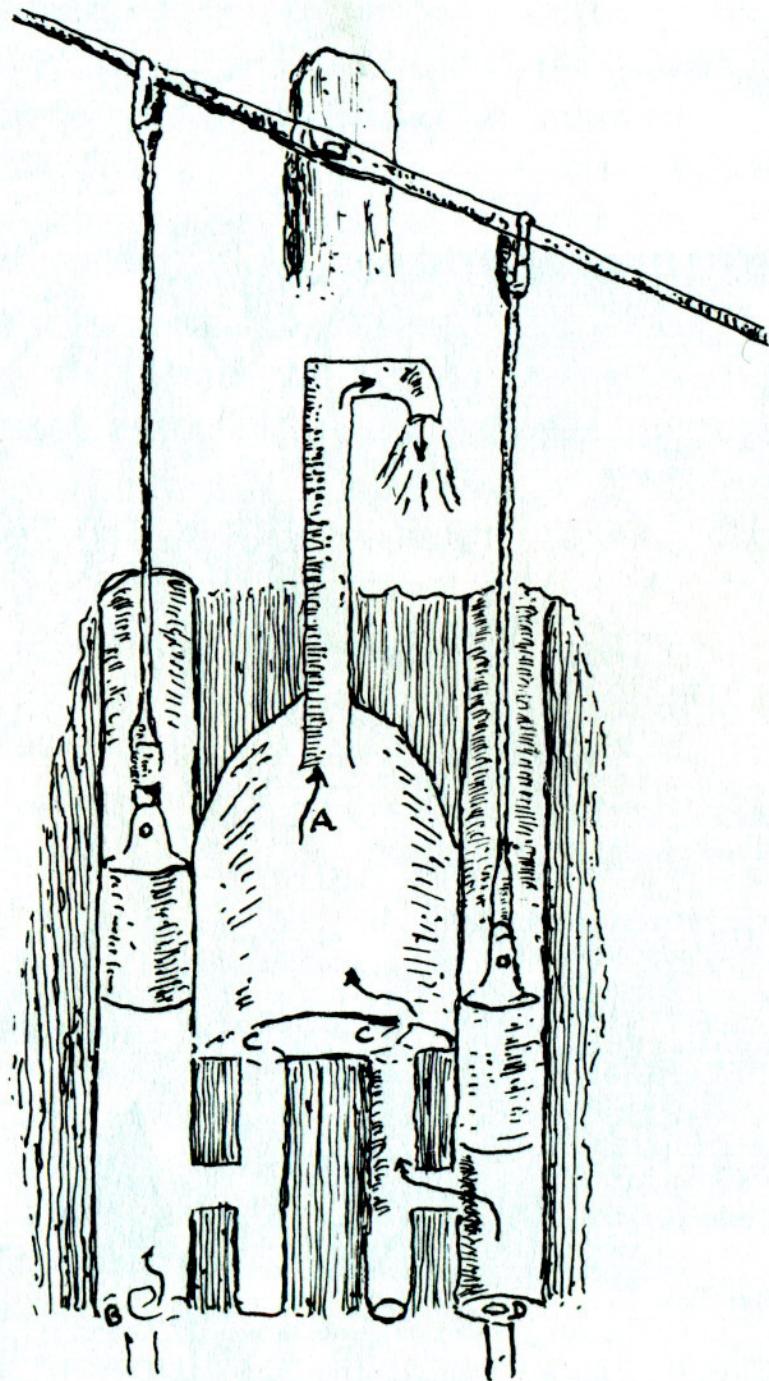


Fig. 8.4. Roman Force Pump, Silchester.
(Courtesy, Reading Museum)



Fig. 8.5. Rotary displacement pump (from Ramelli, 1588).

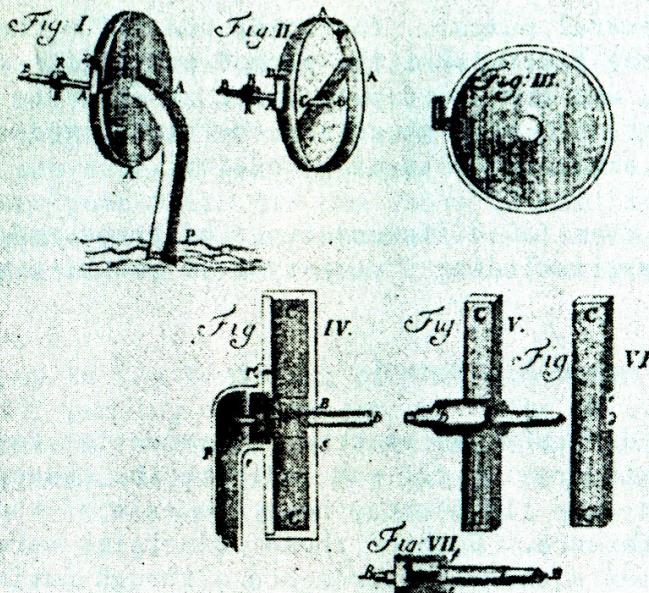


Fig. 8.6. Papin's "Rotatilis Suctor et Pressor Hassiacus" (1689).

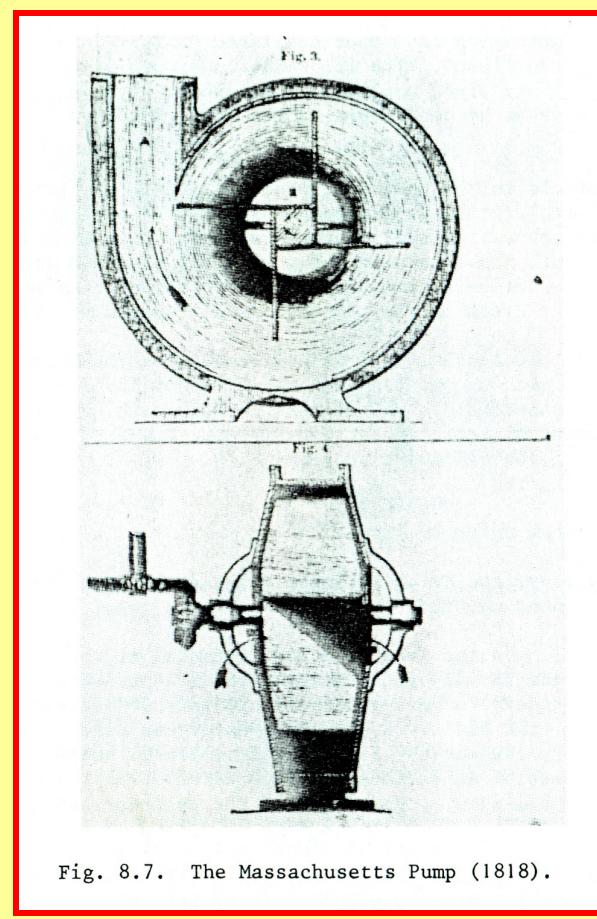


Fig. 8.7. The Massachusetts Pump (1818).

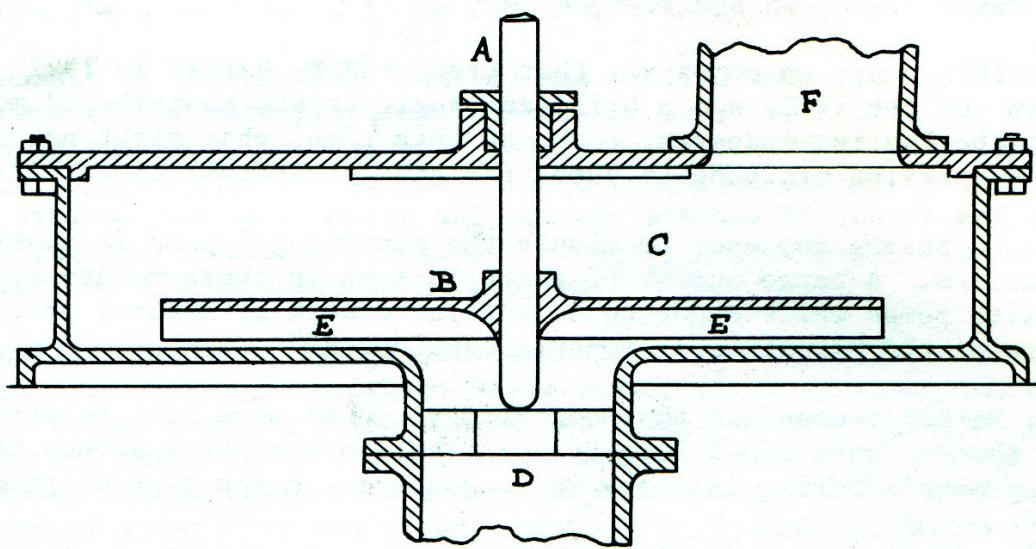


Fig. 8.8. Blake's vertical "disc" pump (1831).

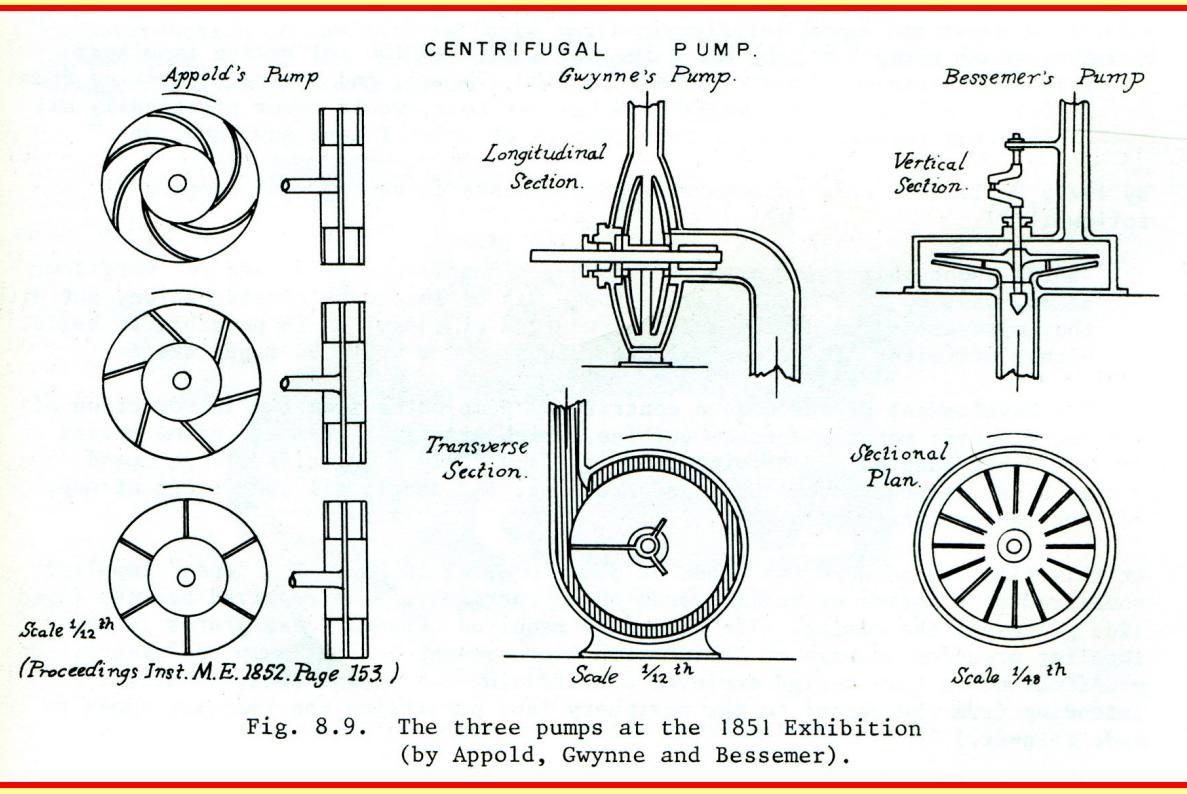


Fig. 8.9. The three pumps at the 1851 Exhibition
(by Appold, Gwynne and Bessemer).

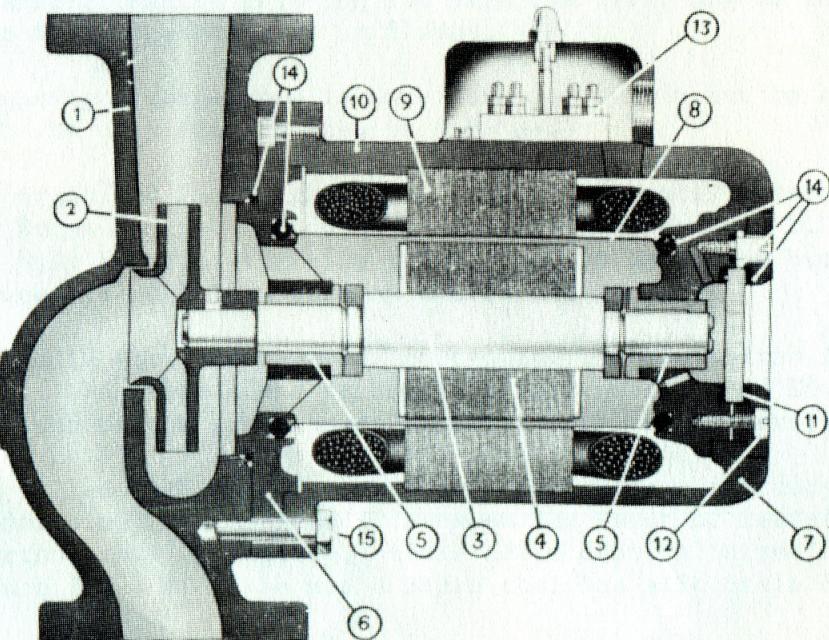


Fig. 8.10. Domestic central heating pump (1955).

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