

Chapter 3 Part 1

HEATING

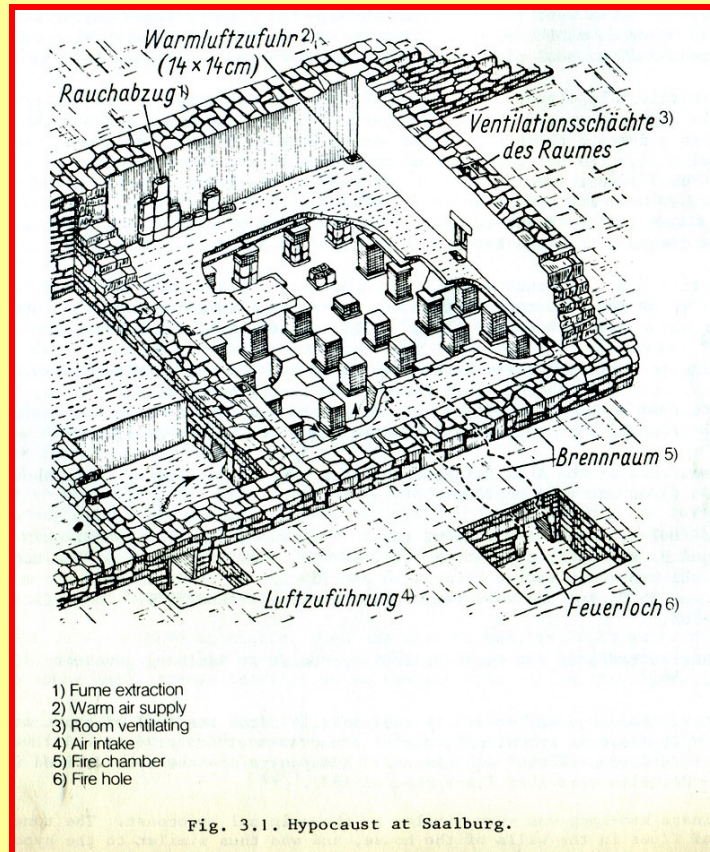


Fig. 3.2. Central Hearth at Penshurst⁽⁶²⁾



Fig. 3.3. An Algarve chimney.
(Photo, Portuguese Tourist Office)

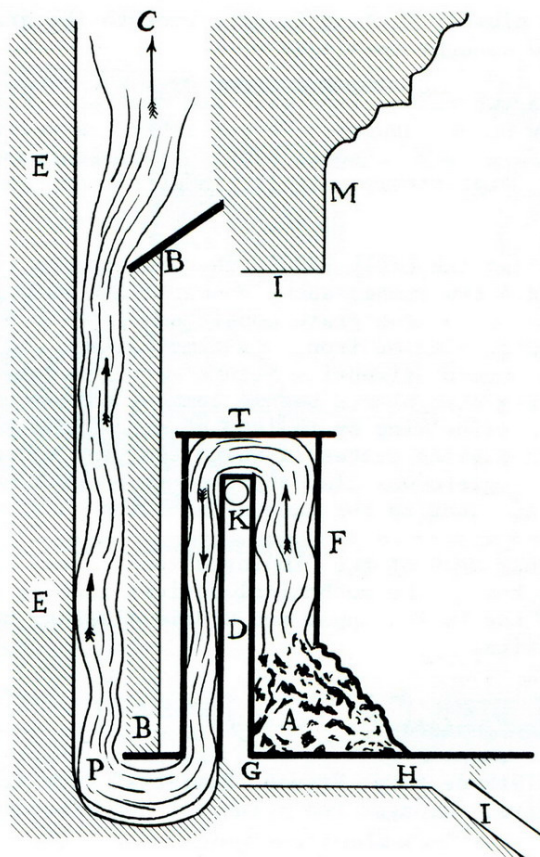
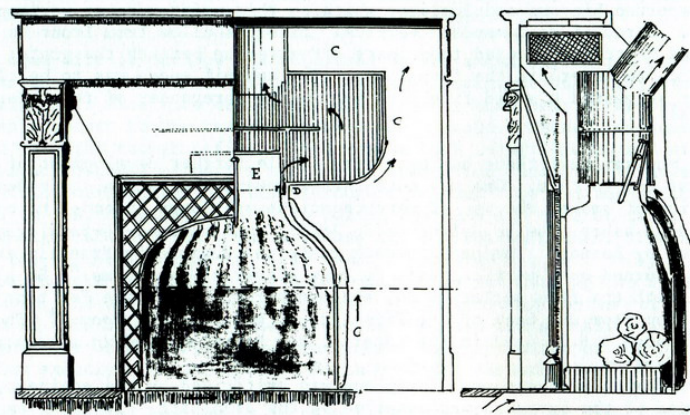


Fig. 3.4. Pennsylvania fireplace.



Vue de face

Coupe latérale

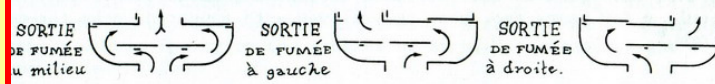


Fig. 3.5. Joly's fireplace.(68)

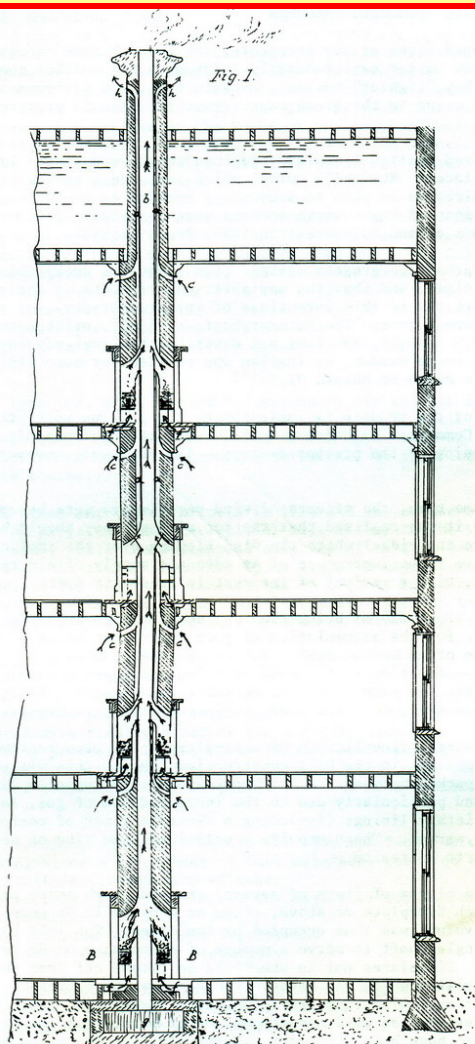


Fig. 3.6. Common flue arrangement proposed by 1857 Commissioners.



Fig. 3.7 A room in a Moscow palace, showing a large heating stove built into one wall and serving two adjacent rooms. (Courtesy Shell-Mex)

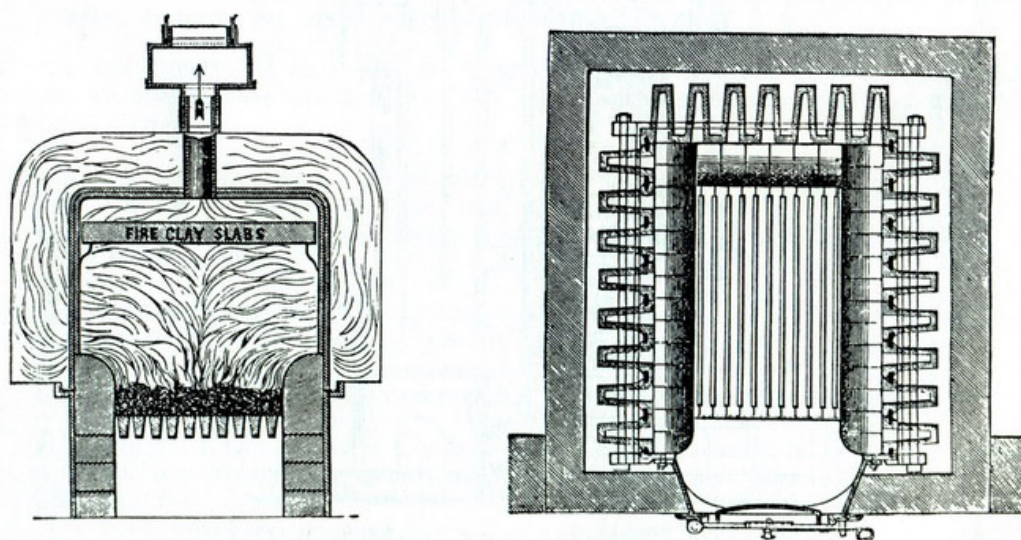


Fig. 3.8. Cross-section, Convoluted stove. (25)

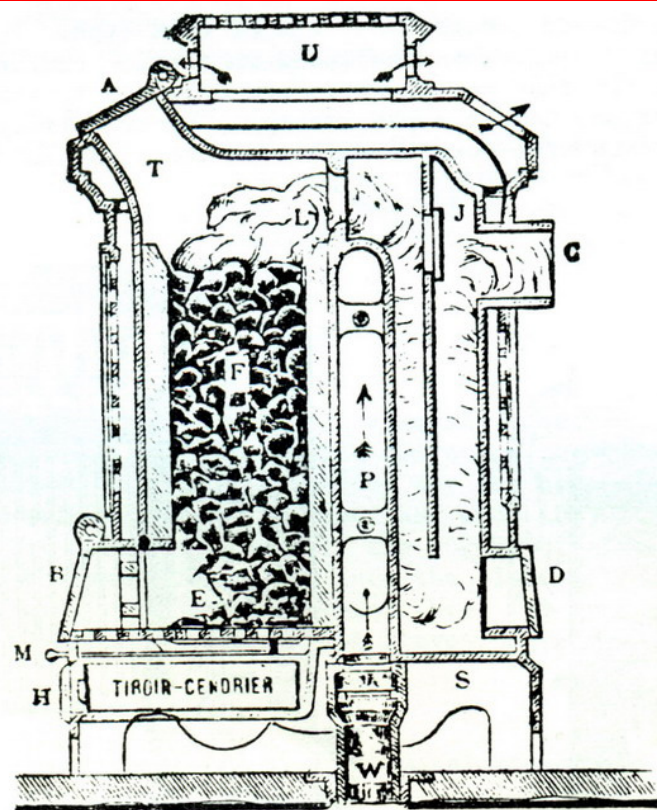


Fig. 3.9. Musgrave stove (Ireland)(1857). (29)

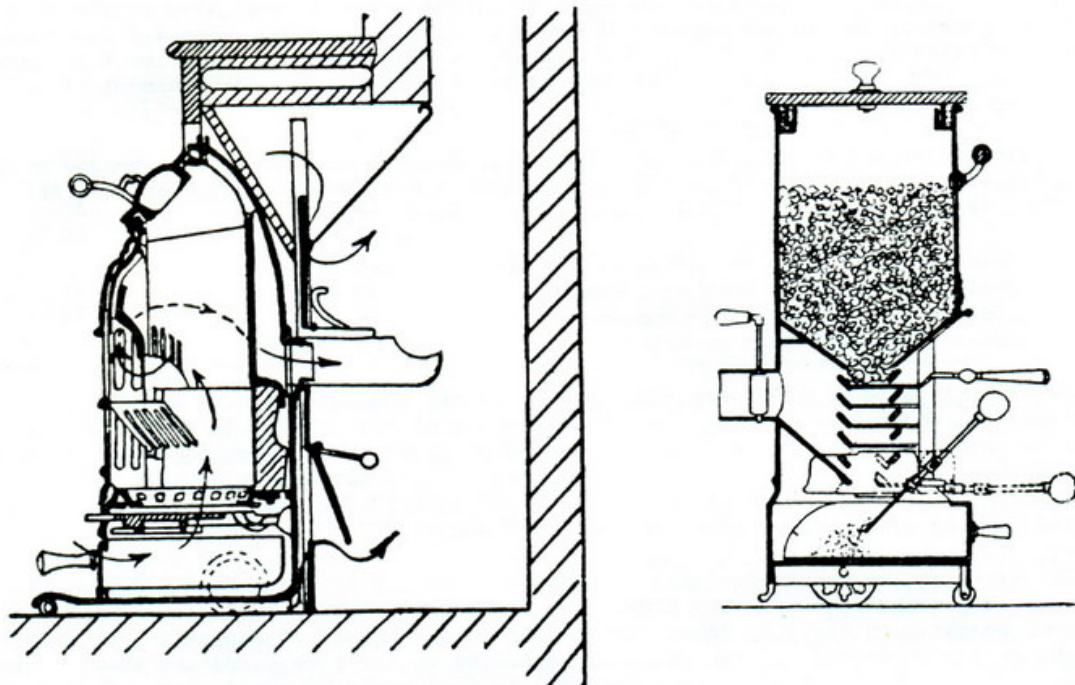


Fig. 3.10. Two portable stoves (slow combustion). (29)
Salamander (*left*) and Cade (*right*).

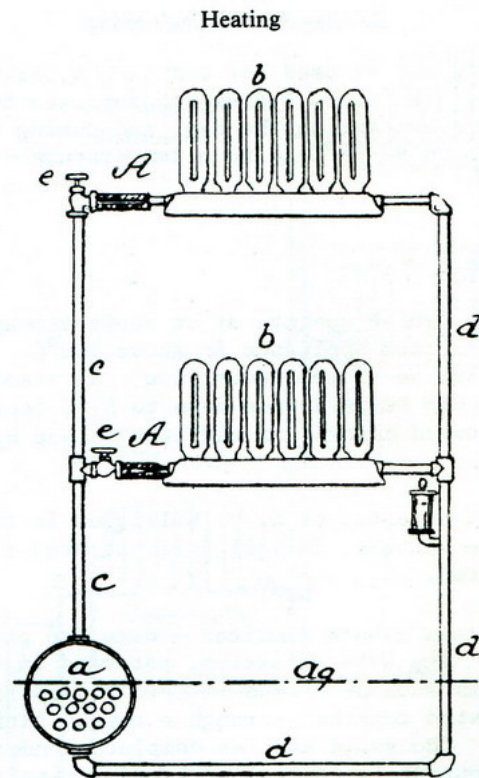


Fig. 3.11. Tudor's fourth patent (1885) on steam heating.⁽²⁹⁾
A - orifice for restricting steam supply.

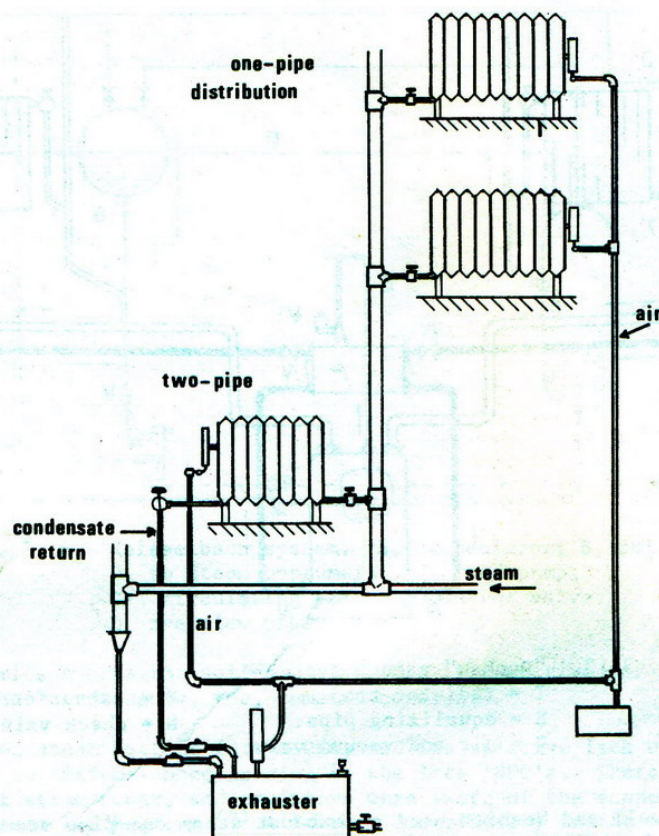


Fig. 3.12. The Paul system of steam heating.⁽²⁹⁾

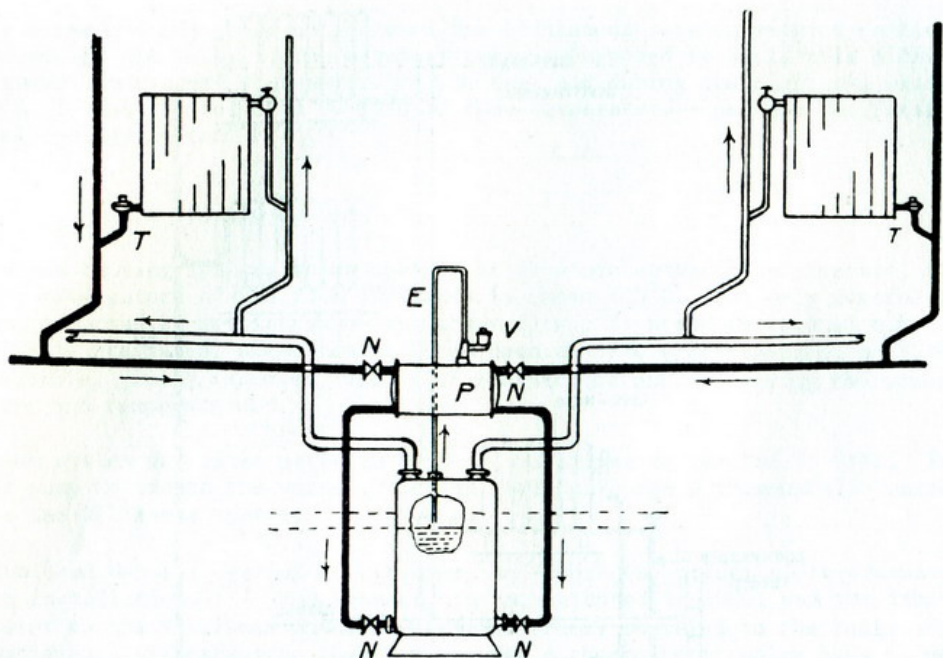


Fig. 3.13. "Dunham" vacuum system.

T = radiator trap.
E = equalizing pipe.
V = air and vacuum valve.

P = exhauster.
N = check valves.

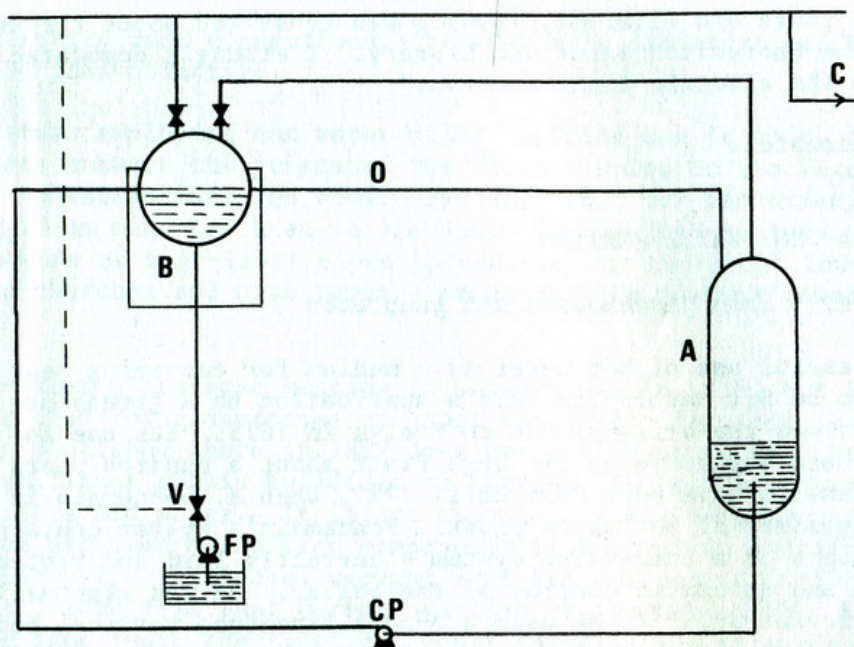
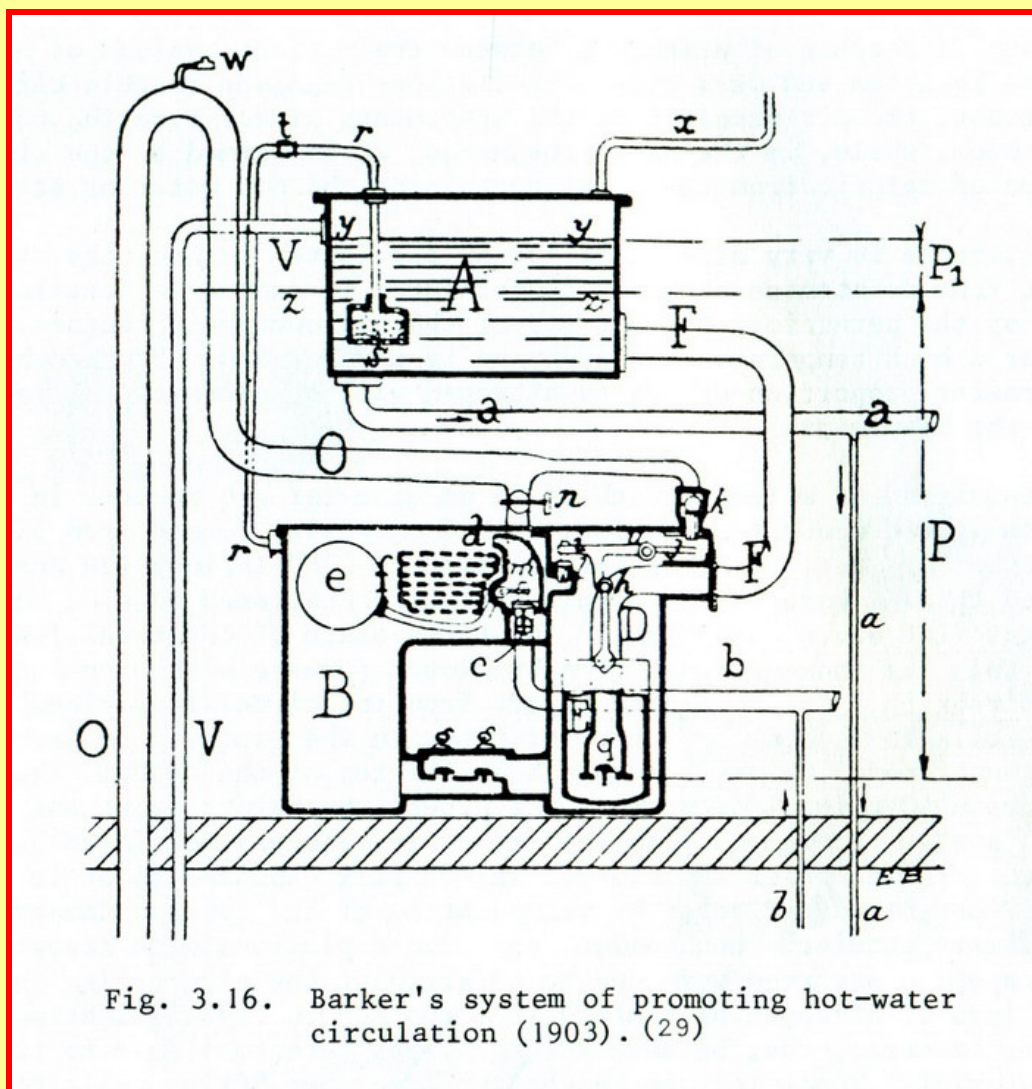
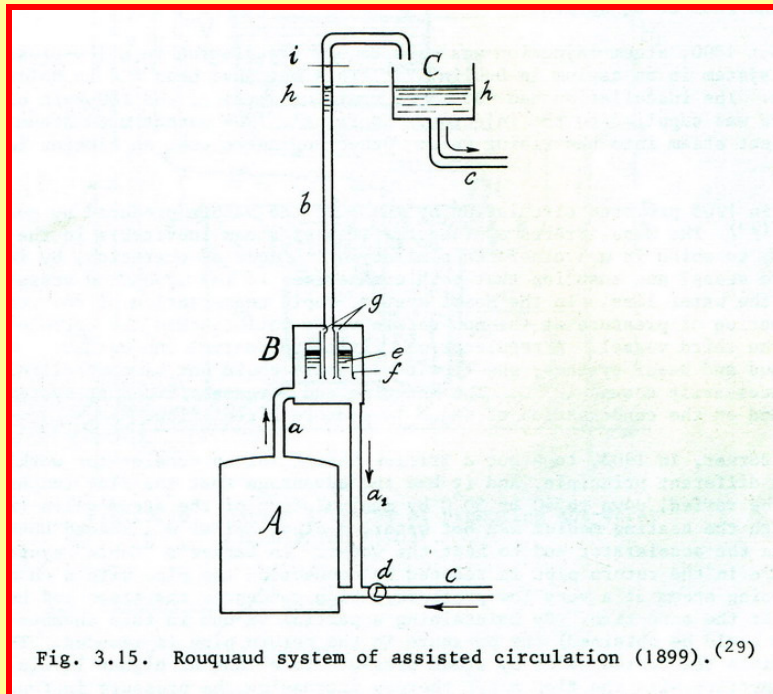


Fig. 3.14. Keisselbach system. A, accumulator; B, boiler;
C, to steam consumers; FP, feed pump;
CP, circulating pump; V, control valve.
O, overflow pipe.



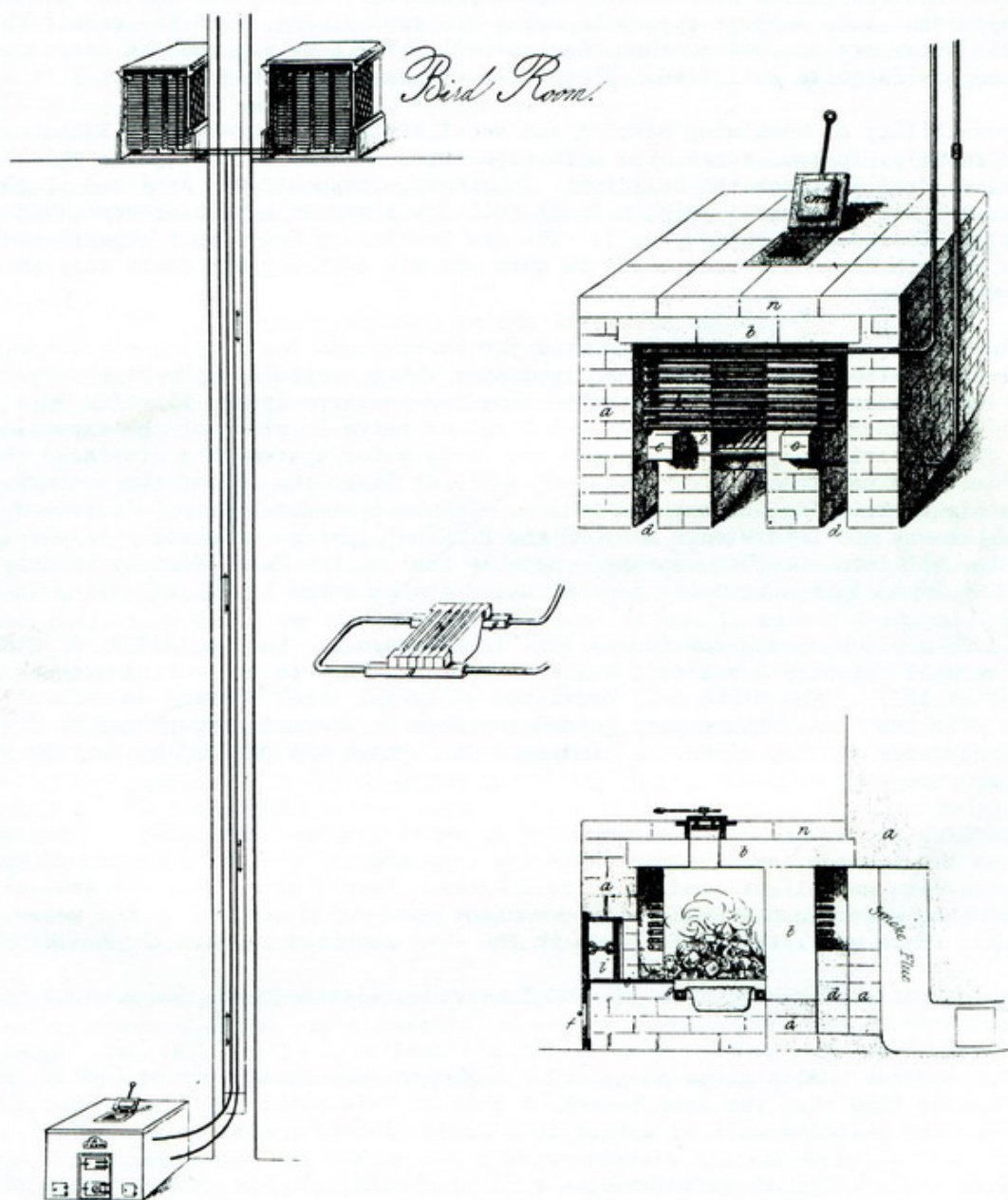


Fig. 3.17. Perkins' heating system for British Museum.(1835)

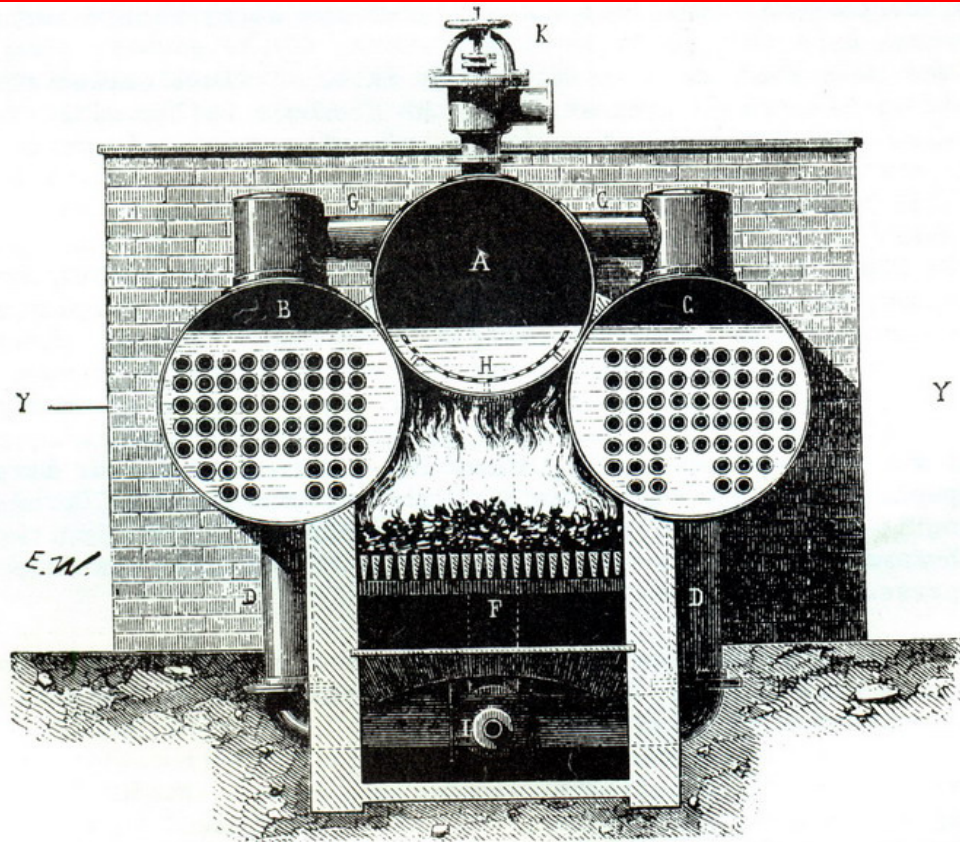


Fig. 3.18. Holcroft and Hoyle's steam boiler (1854).⁽⁶⁶⁾

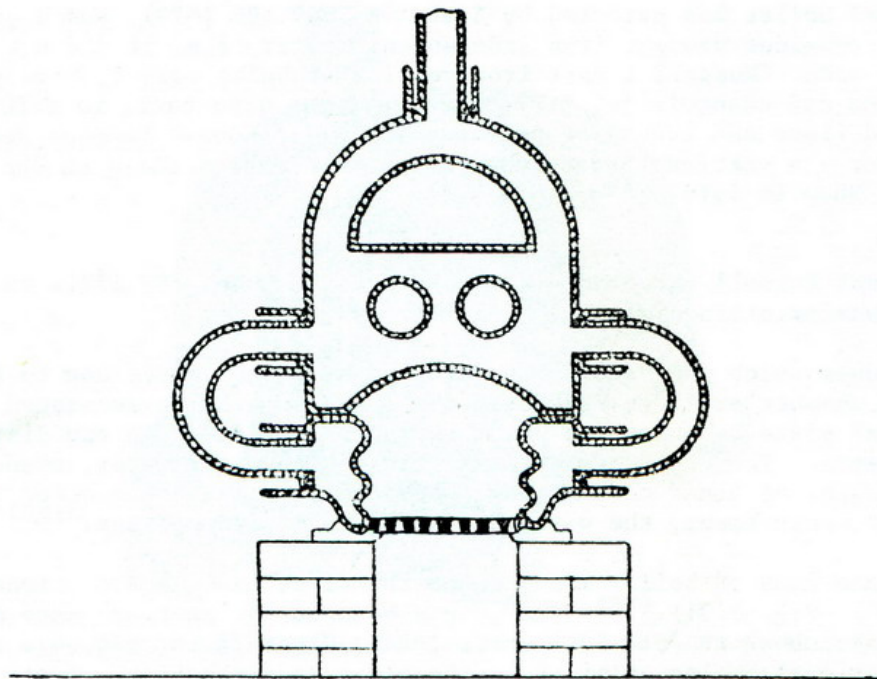


Fig. 3.19. Foster's patent terminal end saddle (1867).⁽⁶⁵⁾
(Courtesy, CIBS)

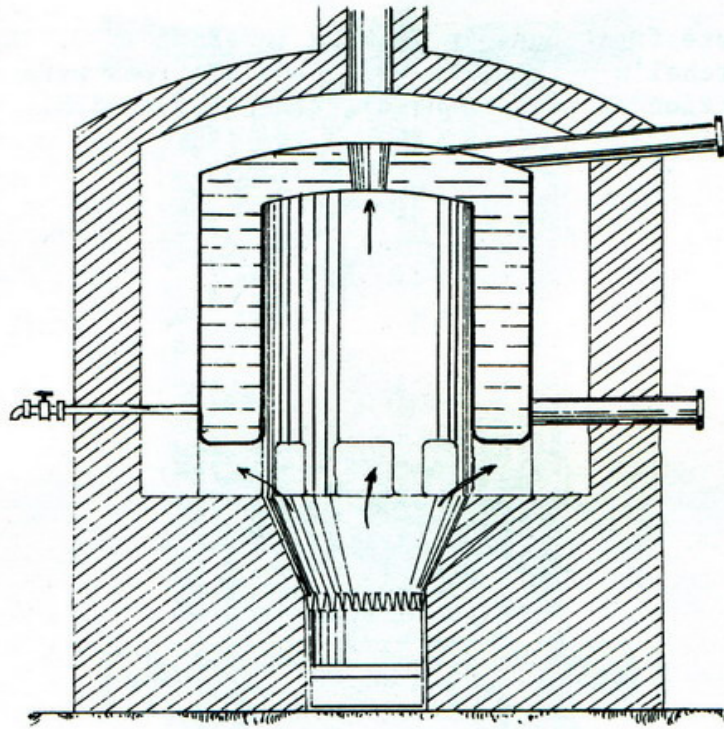


Fig. 3.20. Brick-set annular boiler by Bouillan and Muller.(68)

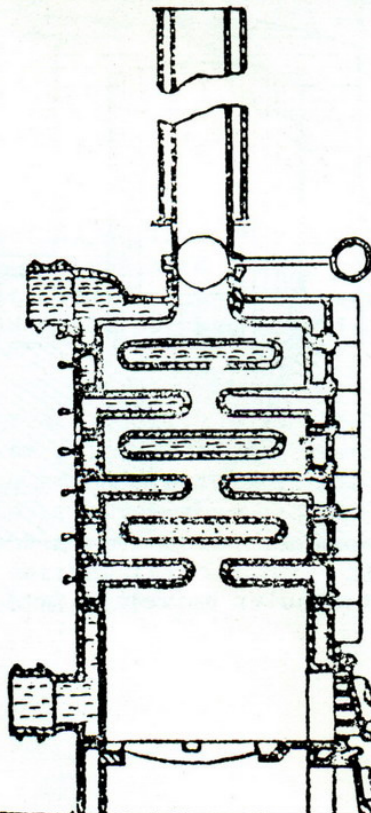


Fig. 3.21. Wright's flame impact (1870).(65)
(Courtesy, CIBS)

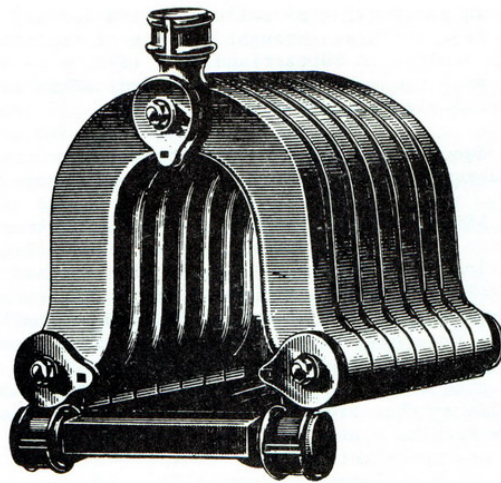


Fig. 3.22. Wagstaff's sectional saddle boiler, patented 1874.

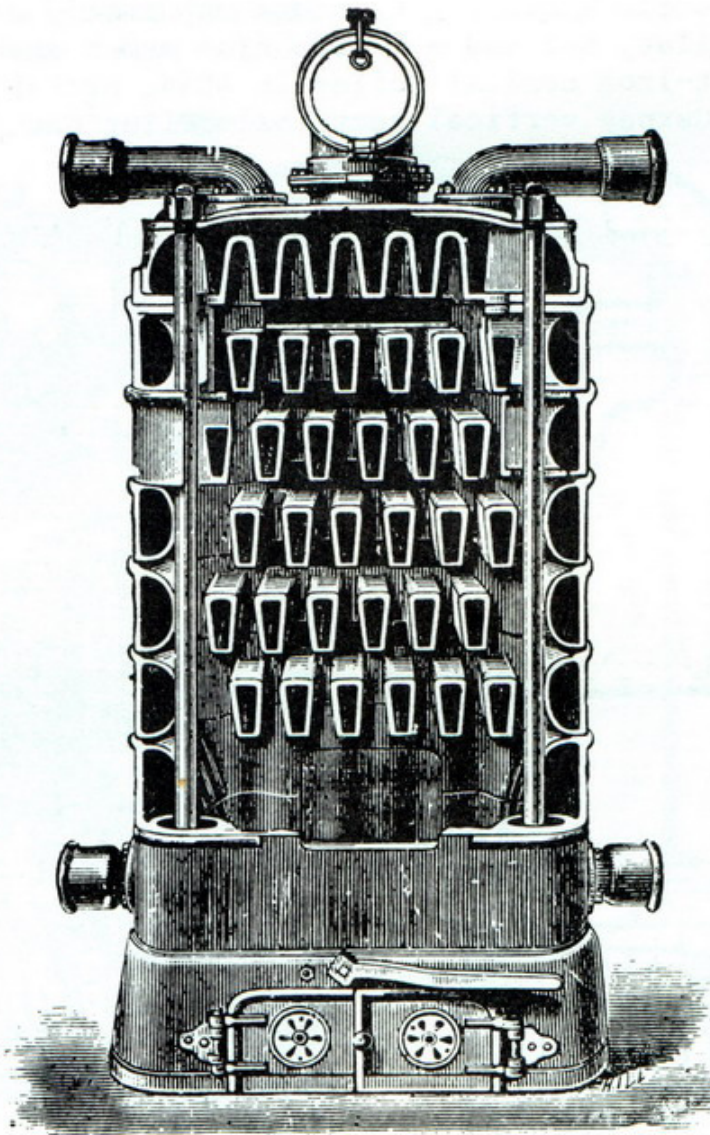
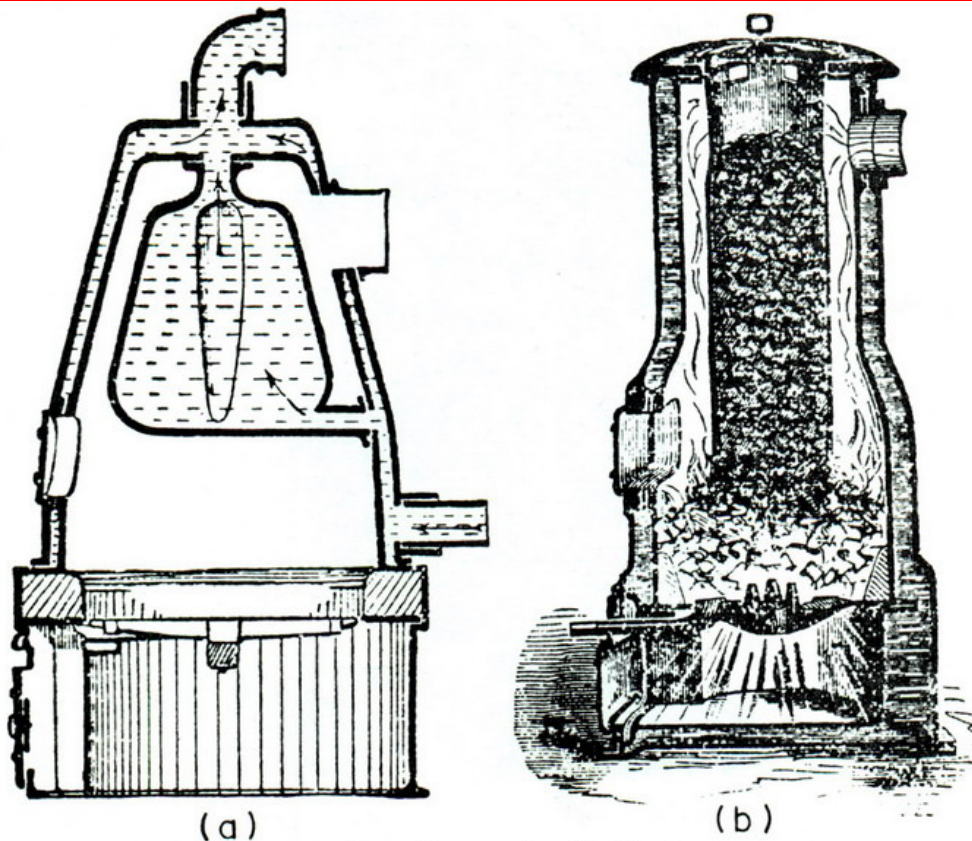


Fig. 3.23. Keith's 'Challenge' vertical sectional boiler.



(a)

(b)

Fig. 3.24. Two American hot-water boilers.
 (a) Hitchings conical boiler, 1844.
 (b) Hitchings magazine boiler.

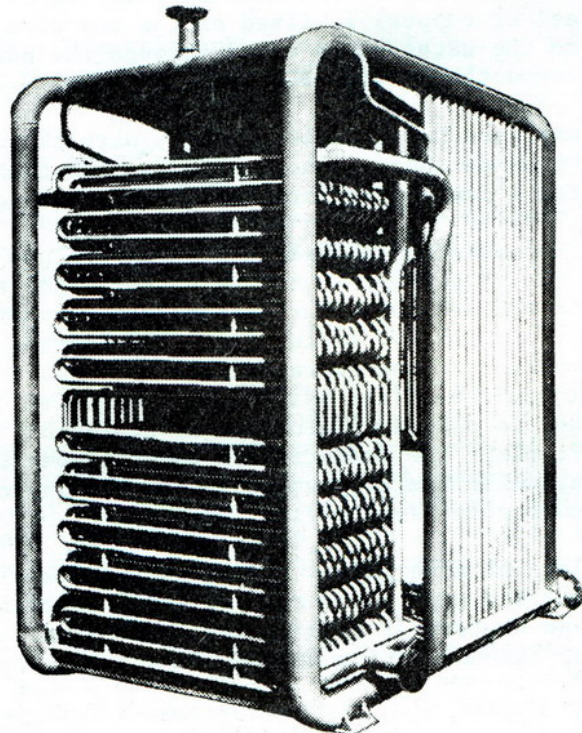
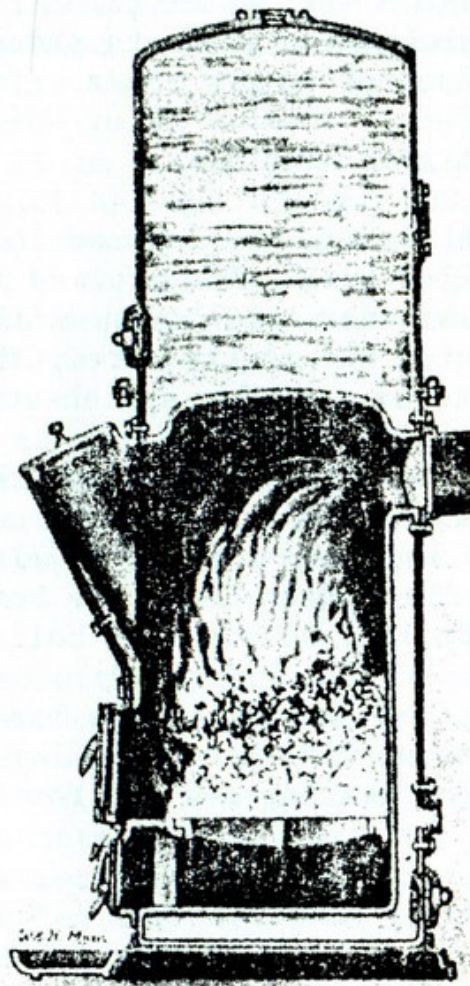


Fig. 3.25. Edwin Danks' new corner tube boiler (1958).



SECTION

Fig. 3.26. Domestic hot-water-supply boiler with integral storage (Lumby, 1937).