

---

REPERTORY  
OF  
ARTS AND MANUFACTURES.  
NUMBER XLVI.

---

XXXIII. *Specification of the Patent granted to Mr. JOHN HAWKSLEY, of Arnold, in the County of Nottingham, Worsted Manufacturer; for certain Improvements and Additions to Machinery for combing Wool, Cotton, Silk, Flax, Hemp, and Mohair; being a circular-revolving Comb-Pot, to beat the Combs, to aid in the combing of Wool; and a Laster or Layer-on of Wool, or other Materials, on the said Combing Machine; and a Socket or Holster, in which to place the Combs, in their respective Compartments, for drawing off the Wool, or other Materials, from the said Machine.*

WITH TWO PLATES.

Dated July 4, 1797.

TO all to whom these presents shall come, &c.  
NOW KNOW YE, that in compliance with the  
VOL. VIII. F f said

saïd proviso, I the saïd John Hawksley do hereby describe and ascertain the nature of my saïd invention, of improvements and additions to the saïd machinery for combing wool, cotton, filk, flax, hemp, and mohair, and the manner in which the same is to be performed, as well by the figures or delineations of machinery, as by the description or explanation set forth; that is to say, Fig. 1, (Plate XII.) A, is the fire-door. B, B, are the spaces in which the comb-teeth are admitted, to receive the heat. C, C, handles by which the stove may be impelled to revolve. D, pipe to convey the smoke away. E, a brass-step in which the stove stands.

Fig. 2, is the drawing or combing machine for which a patent was granted in the year 1793 \*, but now drawn horizontally, in order more clearly to shew what I describe as an holster or holsters, lettered F; which are made of cast-iron, but which may be made of any other substance,

\* For the specification of the patent here referred to, see our second volume, page 217.

and down the inside of which the comb-handles are put, ready for the wool, or other materials, to be drawn off in a perpetual sliver, (opposite which, marked G, are the combs, fixed in their several compartments, for the wool, &c. to be drawn off,) more readily than in the former patent in Fig. 5. A B C, by the long-cogged wheels, fully described (in the former patent) in Fig. 1, Q Q.

Fig. 3, (Plate XIII.) is a lasher or layer-on of wool, or other materials, that may be used and applied to the said machines, as in the former patent, instead of the comb-wheel I, in Fig. 1, and K, in Fig. 5. H, is a shaft which runs through a stationary wheel I. K, is a wheel that revolves round the wheel I. L, L, are two coupling links. M, is a wheel fixed on its axis. N, is another wheel, also fixed on its axis. O, the centre-wheel, revolving with its axis. V, is a pinion, driving the wheel W, which gives motion to the rollers or long-cogged wheels R. P P, is wool, or other materials. Q, is a tube through which the wool

passes, or is drawn along, by the long-cogged wheels R.

S, S, are two other views of the sides or arms T, T, of Fig. 3.

In case it should be preferred to lay or lash the wool, or other materials, on the combs, and clear or work it by hand-labour, as has been done for ages, instead of the comb-wheels I, in Fig. 1, and K, in Fig. 5, of former patent, or Fig. 3, above described, I recommend that the combs should be so small that children may be able to do the office as well as men. In witness whereof, &c.

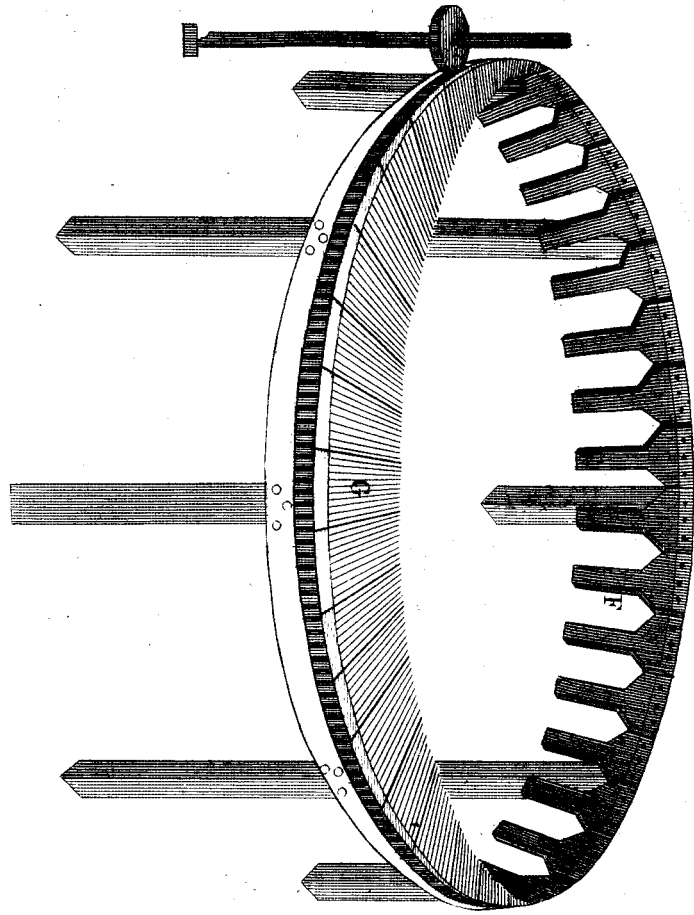


Fig. 2.

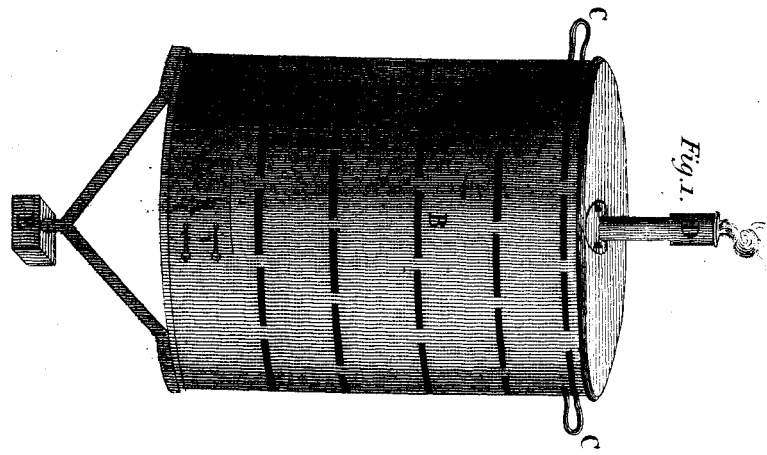


Fig. 1.

Fig. 3

