

Specification of George Kent : apparatus for sifting cinders and cleaning knives.

Contributors

Kent, George.

Publication/Creation

London : Great Seal Patent Office, 1857 (London : George E. Eyre and William Spottiswoode)

Persistent URL

<https://wellcomecollection.org/works/jukze3uy>

License and attribution

This work has been identified as being free of known restrictions under copyright law, including all related and neighbouring rights and is being made available under the Creative Commons, Public Domain Mark.

You can copy, modify, distribute and perform the work, even for commercial purposes, without asking permission.



A.D. 1852 N° 13,920.

S P E C I F I C A T I O N

OF

GEORGE KENT.

APPARATUS FOR SIFTING CINDERS AND
CLEANING KNIVES.

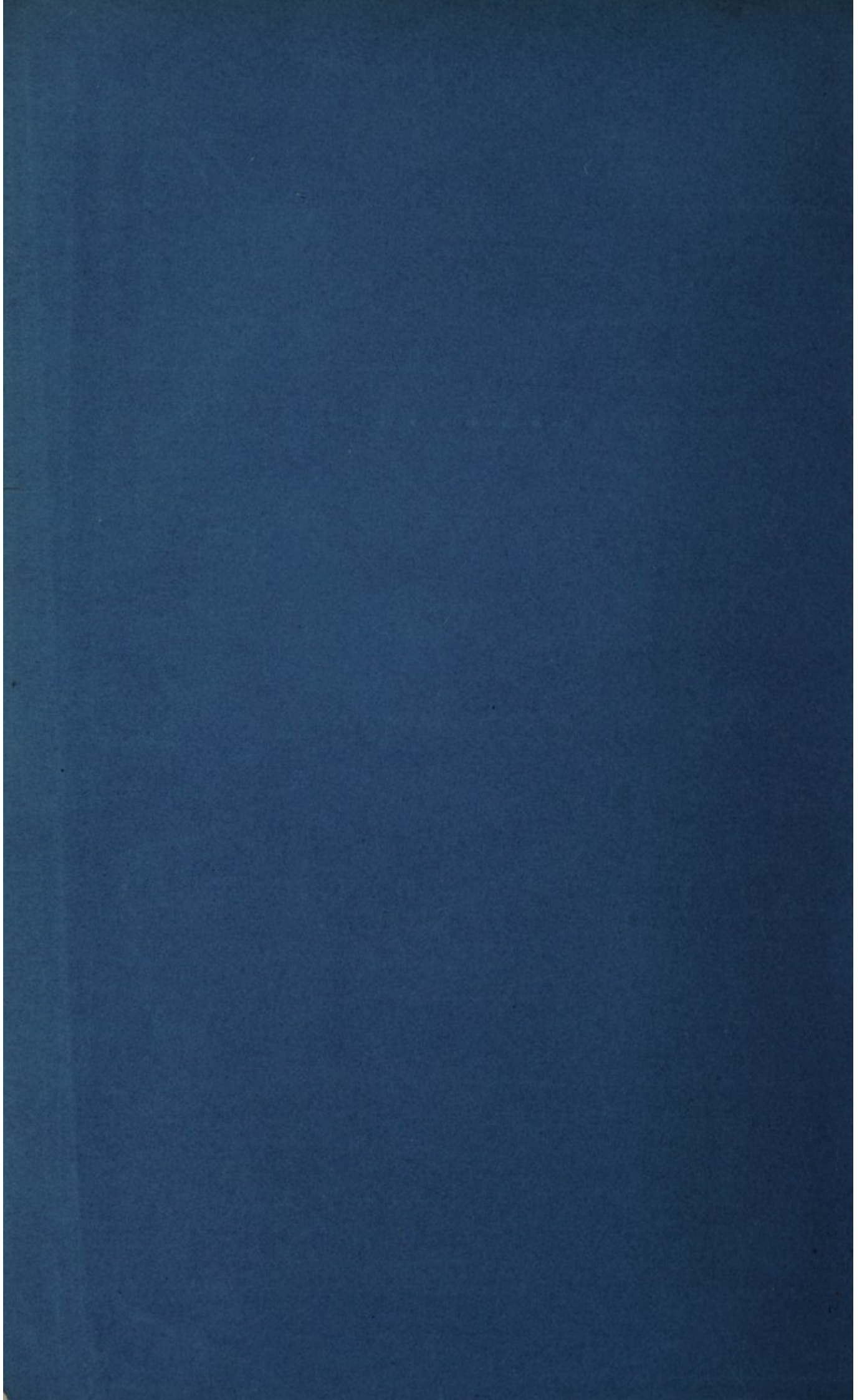
LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
PRINTERS TO THE QUEEN'S MOST EXCELLANT MAJESTY:

PUBLISHED AT THE GREAT SEAL PATENT OFFICE,
25, SOUTHAMPTON BUILDINGS, HOLBORN.

Price 1s. 6d.

1857.





A.D. 1852 N° 13,920.

Apparatus for Sifting Cinders and Cleaning Knives.

KENT'S SPECIFICATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, GEORGE KENT, of the Strand, in the County of Middlesex, Patentee of the Rotary Knife Cleaner, send greeting.

WHEREAS Her present most Excellent Majesty Queen Victoria, by Her
5 Royal Letters Patent under the Great Seal of the United Kingdom of Great
Britain and Ireland, bearing date at Westminster, the Twenty-fourth day
of January, One thousand eight hundred and fifty-two, in the fifteenth year of
Her reign, did, for Herself, Her heirs and successors, give and grant unto
me, the said George Kent, my exors, admors, and assigns, Her especial license,
10 full power, sole privilege and authority, that I, the said George Kent, my exors,
admors, and assigns, or such others as I, the said George Kent, my exors,
admors, or assigns, should at any time agree with, and no others, from time to
time and at all times during the term of years therein expressed, should
and lawfully might make, use, exercise, and vend, within England, Wales,
15 and the Town of Berwick-upon-Tweed, the Invention of "CERTAIN IMPROVE-
MENTS IN APPARATUS FOR SIFTING CINDERS AND IN APPARATUS FOR CLEANING
KNIVES;" in which said Letters Patent is contained a proviso that I, the
said George Kent, shall cause a particular description of the nature of the said
Invention, and in what manner the same is to be performed, by an instru-
20 ment in writing under my hand and seal, to be inrolled in Her said Majesty's
High Court of Chancery within six calendar months next and immediately
after the date of the said in part recited Letters Patent, as in and by the
same, reference being thereunto had, will more fully and at large appear.

Kent's Improvements in Apparatus for Sifting Cinders and Cleaning Knives.

NOW KNOW YE, that in compliance with the said proviso, I, the said George Kent, do hereby declare the nature of my said Invention, and in what manner the same is to be carried into effect, are fully described and ascertained in and by the following description thereof, reference being had to the Drawings hereunto attached, and to the figures and letters marked thereon, 5 that is to say:—

The Invention relates, first, to apparatus for receiving cinders and separating the larger parts, which may be again used as fuel, from the smaller parts or dust which are unfit for fuel.

And, secondly, my Invention relates to means of supporting the pieces of 10 leather affixed to the sides of the discs used in my rotary knife cleaner.

In order that the Invention may be fully understood and readily carried into effect, I will now proceed to describe the Drawings hereunto annexed.

DESCRIPTION OF THE DRAWINGS.

Figure 1 shews an external view, Figure 2 an end view, Figure 3 a 15 longitudinal section, and Figures 4 and 5, transverse sections of apparatus according to the first part of my improvements, and which consist of a hopper in which the refuse from the fire-places are first placed, thence they pass into the perforated cylinder, which, when set in motion, separates the larger parts from the small and dust, the dust falling through into a lower chamber, whilst 20 the larger lumps are thrown forward into a receiver placed in front to receive them. The parts are for the most part enclosed in a sort of box, which is divided into two parts *a*, *b*, capable of being separated; the part *a* being the lower; and is for the purpose of receiving, and for a time retaining, the small ashes or dust thrown out in the act of separation effected by the working of 25 the apparatus; the part *b* contains the principal parts, which I will now describe. *c* is the trough into which the cinders and refuse to be separated are placed; it has a cover *d*, and an inclined bottom *e*, to conduct the matters through the opening *f* into the perforated cylinder *g*, which it will be seen has no supporting axis passing through it, but is supported externally at each end 30 upon rollers *h*, *h*, so as to be capable of rotating, whilst the interior is free of any axis to impede the free passage of the cinders, and other refuse matters therein. The perforated cylinder I by preference form of perforated zinc or galvanised iron, the ends of which are fixed to the metallic rings *g*¹, *g*¹, upon one of which is formed the tooth surface or wheel *g*², by which rotary motion is 35 given to the cylinder *g*, such tooth surface taking into the pinion *i*, fixed upon the axis *i*¹, upon which is affixed the crank handle *j*, by turning which rotary motion will be given to the cylinder *g*; and to facilitate the separation of the

Kent's Improvements in Apparatus for Sifting Cinders and Cleaning Knives.

matters as they pass through the cylinder *g*, there are affixed in that cylinder the tooth apparatus *g*³, and to distribute the dust and loose particles as they pass from and accumulate under the cylinder *g*, there is affixed to the cylinder *g*, the bar *g*⁴, which, as the cylinder rotates, prevents the matters
 5 remaining in contact with that cylinder, and thereby impeding the further passage therethrough. The larger parts which do not pass through the perforation of the cylinder fall through the opening *k*, and are received into the receiver *l*, which I prefer to be of the form shown, and is supported by its ears *l*¹ being hung on the projections *m*, *m*. *n*, *n*, are handles to the parts
 10 *a*, *b*, and *o* is a handle to the part *l*.

I will now describe the second part of my Invention, which is shewn by Figures 6 and 7. I have not thought it necessary to show one of my rotary knife cleaners entire, as they are described in a former Patent granted to me, and I have therefore only shewn one of the rotary polishing discs, to which
 15 alone the present improvements apply. Heretofore, in forming such rubbing or polishing surfaces, in order to give elasticity to the strips of leather, I applied rows of bristles at the back of such strips. But I have found that the strips of leather do not act uniformly on the knives to be cleaned, and those strips are worn away unequally; and my present improvements under this head of the
 20 Invention consists in substituting for such rows of bristles as supporting means strips of india-rubber (by preference vulcanised); *p*, *p*, are the strips of leather for the purpose of producing the cleaning and polishing on the knives, and *q*, *q*, are the strips of india-rubber for giving elastic support to those strips of leather. These strips *p* and *q* are retained in position by means of the strips of
 25 wood *r*.

Having thus described the nature of my Invention, and the manner of carrying the same into effect, I would have it understood that I do not confine myself to the precise details herein described, so long as the peculiar character of either part of the Invention be retained; but what I claim is,—

30 First, the means herein described of arranging apparatus for sifting cinders.

And, secondly, I claim the applying india-rubber as a supporting means to the strips of leather employed to clean and polish knives in apparatus such as above referred to.

In witness whereof, I, the said George Kent, have hereunto set my hand
 35 and seal, this Twenty-fourth day of July, One thousand eight hundred and fifty-two.

GEORGE (L.S.) KENT.

Kent's Improvements in Apparatus for Sifting Cinders and Cleaning Knives.

JEFFERSON.

AND BE IT REMEMBERED, that on the Twenty-fourth day of July in the year of our Lord 1852, the aforesaid George Kent came before our said Lady the Queen in Her Chancery, and acknowledged the Specification aforesaid, and all and every thing therein contained and specified, in form above written. And also the Specification aforesaid was stamped according 5 to the tenor of the Statute made for that purpose.

Enrolled the Twenty-fourth day of July, in the year of our Lord One thousand eight hundred and fifty-two.

LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1857.

FIG 1

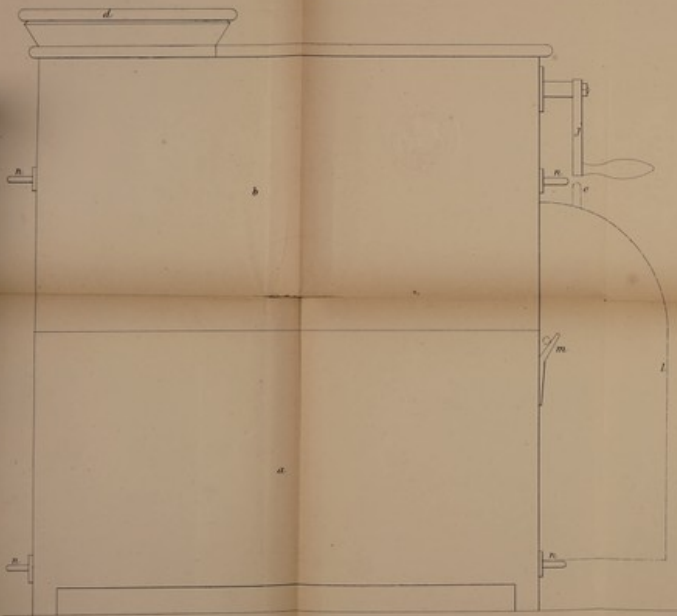
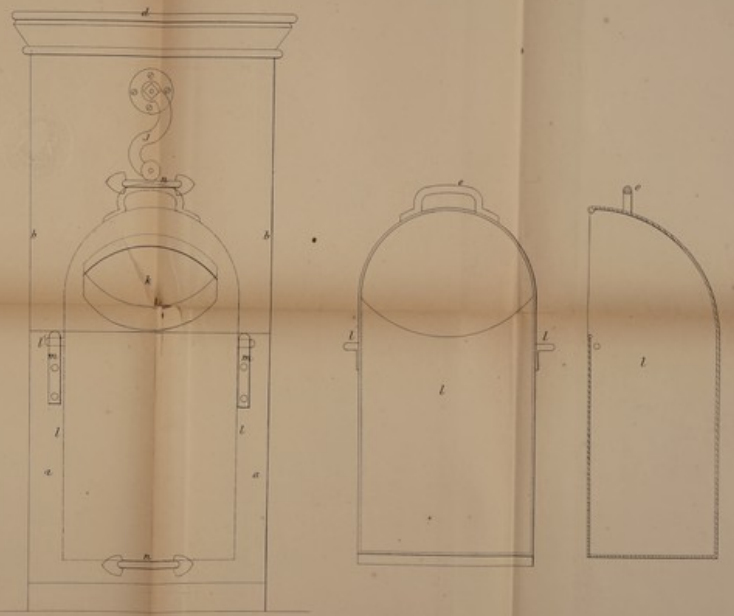


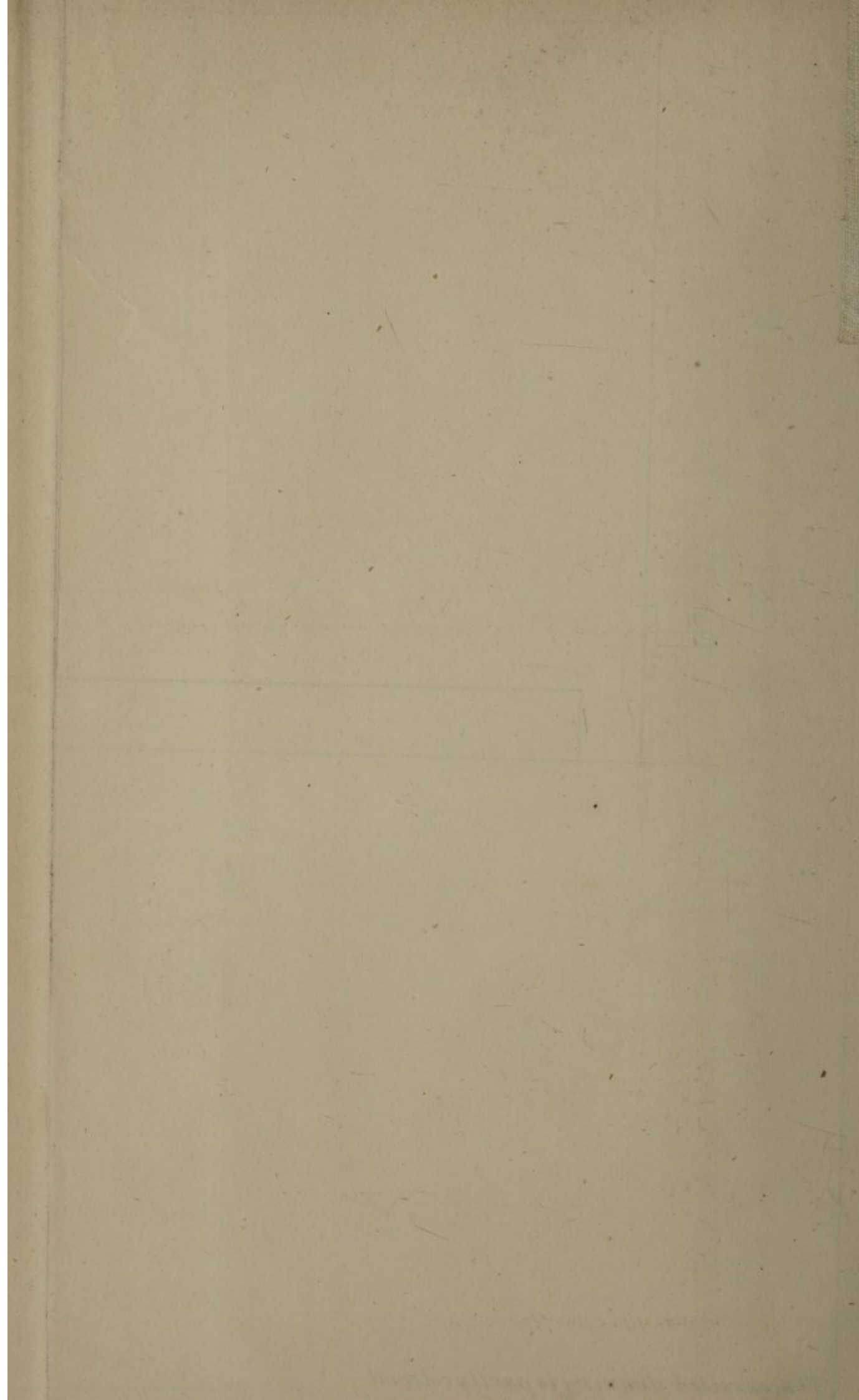
FIG 2



The colored drawing is partly colored.

Inventor: *Samuel George Lewis Jones and William Thompson*
Printed by the Government Printer, Sydney, N.S.W.

Drawn and Colored by *Wm. G. Swan*



A. D. 1852, JAS. 24. N° 13,920.
KENT'S SPECIFICATION.

FIG. 3.

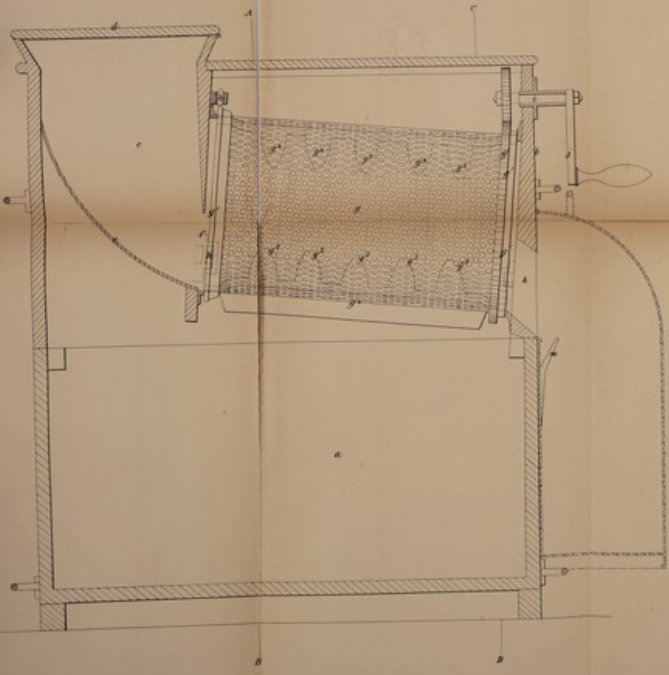


FIG. 4.
Transverse Section
Through
The line A.B. FIG. 3.

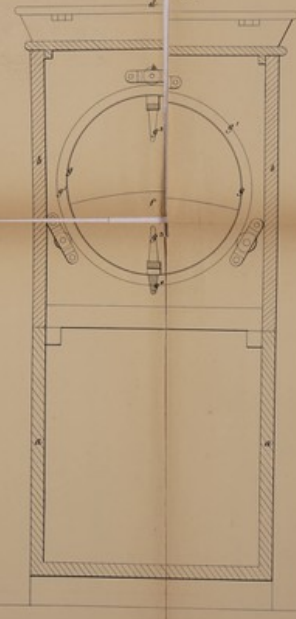
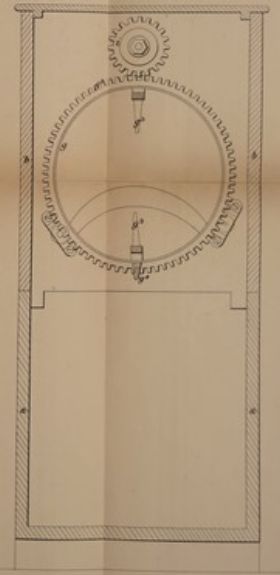


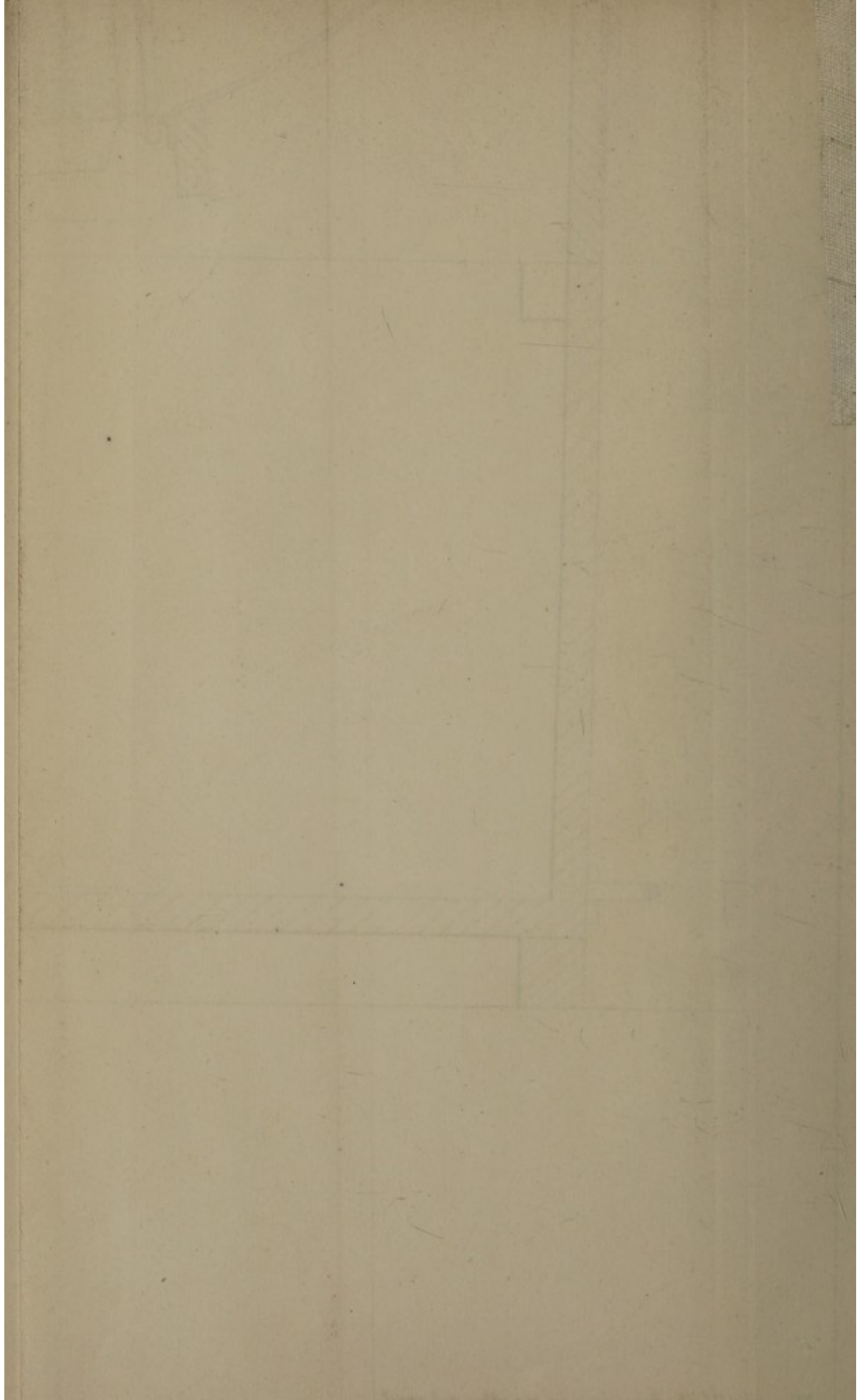
FIG. 5.
Transverse Section Through
The line C.D. FIG. 3.



The mottled drawing is partly colored.

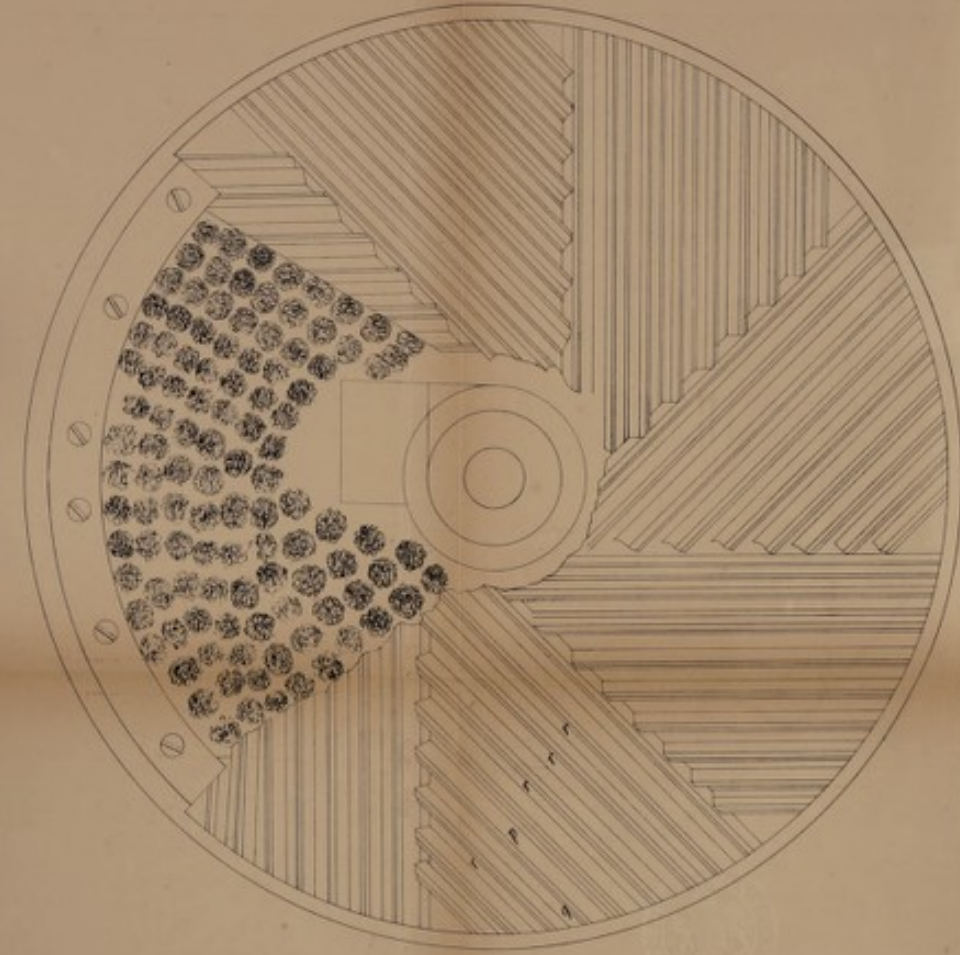
London: Printed by George Edwards and Son, 15, Abchurch Lane, in the Old Bailey, 1852.

Drawn and Engraved by Wm. & A. Stone.



A. D. 1852. JAN 24. N° 13920.
KENT'S SPECIFICATION

FIG. 1.



The enlaid drawing is partly colored.

LONDON: Printed by GEORGE FENNER, Finsbury Pavement, and WILLIAM STURTEVANT, 15, Abchurch Lane, in the City of London.

Drawn on Stone by Mally & Sons.

