

Specification of Thomas Bell Elcock Fletcher : apparatus for collecting the solid portions of sewage.

Contributors

Fletcher, Thomas Bell Elcock.

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A.D. 1863, 15th APRIL. N° 953.

SPECIFICATION

OF

THOMAS BELL ELCOCK FLETCHER.

APPARATUS FOR COLLECTING THE SOLID
PORTIONS OF SEWAGE.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

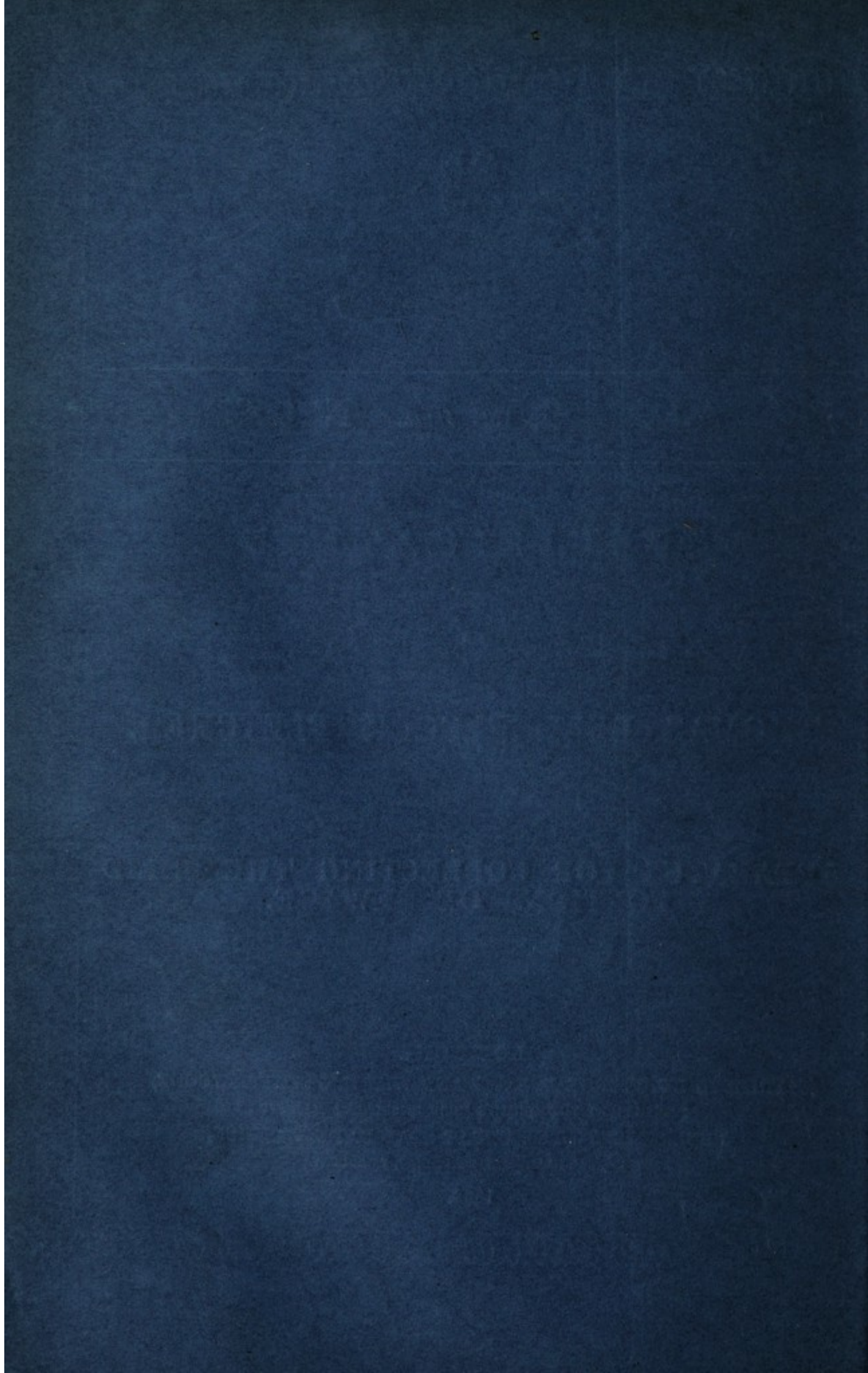
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1863.





A.D. 1863, 15th *APRIL*. N° 953.

Apparatus for Collecting the Solid Portions of Sewage.

LETTERS PATENT to Thomas Bell Elcock Fletcher, of Birmingham, in the County of Warwick, Doctor of Medicine, for the Invention of "IMPROVEMENTS IN APPARATUS FOR COLLECTING THE SOLID PORTIONS OF SEWAGE."

Sealed the 2nd October 1863, and dated the 15th April 1863.

PROVISIONAL SPECIFICATION left by the said Thomas Bell Elcock Fletcher at the Office of the Commissioners of Patents, with his Petition, on the 15th April 1863.

I, THOMAS BELL ELCOCK FLETCHER, of Birmingham, in the County of Warwick, Doctor of Medicine, do hereby declare the nature of the said Invention for "IMPROVEMENTS IN APPARATUS FOR COLLECTING THE SOLID PORTIONS OF SEWAGE," to be as follows (that is to say):—

I employ a receptacle or pan placed in any position where it will intercept the passage of the sewage from its source to the outlet. This receptacle is furnished at or near the top with two bends, one for the ingress of the sewage, and the other for the egress of the fluid portion only, the latter being provided with a grating to prevent solids from being washed through. The advantages of this arrangement are, that the solid sewage is collected, the fluid passing away; the water, by the arrangement of the bends, acts as a double stench trap, and the grating operates as a filterer. I propose to make this apparatus of convenient size to remove and empty as often as occasion may require.

Fletcher's Impts. in Apparatus for Collecting the Solid Portions of Sewage.

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said Thomas Bell Elcock Fletcher in the Great Seal Patent Office on the 14th October 1863.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, THOMAS BELL ELCOCK FLETCHER, of Birmingham, in the County of Warwick, Doctor of Medicine, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Fifteenth day of April, in the year of our Lord One thousand eight hundred and sixty-three, in the twenty-sixth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Thomas Bell Elcock Fletcher, Her special licence, that I, the said Thomas Bell Elcock Fletcher, my executors, administrators, and assigns, or such others as I, the said Thomas Bell Elcock Fletcher, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Isles, and Isle of Man, an Invention for "**IMPROVEMENTS IN APPARATUS FOR COLLECTING THE SOLID PORTIONS OF SEWAGE**," upon the condition (amongst others) that I, the said Thomas Bell Elcock Fletcher, by an instrument in writing under my hand and seal, should particularly describe and ascertain the nature of the said Invention, and in what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

NOW KNOW YE, that I, the said Thomas Bell Elcock Fletcher, do hereby declare the nature of my said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement, reference being had to the Drawings hereunto annexed, and to the letters and figures marked thereon (that is to say):—

I employ a receptacle or pan placed in any position where it will intercept the passage of the sewage from its source to the outlet, this receptacle is furnished at or near the top with two bends, one for the ingress of the sewage, and the other for the egress of the fluid portion only, the latter being provided with a grating to prevent solids from being washed through. The advantages of this arrangement are, that the solid sewage is collected, the fluid passing away; by the arrangements of the bends the water acts as a double stench

Fletcher's Impts. in Apparatus for Collecting the Solid Portions of Sewage.

trap, and the grating operates as a filterer. I propose to make this apparatus of convenient size to remove and empty as often as occasion may require.

Figure 1 represents the apparatus made by preference of the description of earthenware termed stoneware.

5 (A) is the main receptacle; (B), the ingress bend, by which solid and fluid sewage is carried into the receptacle (A); (C) is the egress bend, by which the fluid sewage filtered through the grating or strainer (D) is conducted to the sewer, the solid sewage remaining as a deposit at the bottom of the receptacle (A), the large body of water above this deposit acts as a double
10 stench trap, and effectually prevents the escape of any effluvium.

The entire apparatus may be removed or emptied when necessary, or for the greater convenience of removal of the deposit, the apparatus may be furnished with linings or buckets, as seen in Figures 2 and 3, which buckets may be perforated at the top, and thus act as strainers, filtering the sewage as
15 the grating does in Figure 1; these buckets or linings can be frequently withdrawn and emptied without displacing the apparatus generally.

Another modification of the apparatus may be formed by employing two large tubes or cylinders one within the other, the ingress bend passing into the internal cylinder, the egress bend leading out of the external one; the part of
20 the internal cylinder below the bend of ingress and above the bucket may be perforated to act as a strainer.

Having thus described the nature of my said Invention and in what manner the same is to be performed, I claim, without limiting myself to these precise details, the improvements in apparatus for collecting the solid portions of
25 sewage, as herein more fully set forth and specified.

In witness whereof, I, the said Thomas Bell Elcock Fletcher, have hereunto set my hand and seal, this Thirteenth day of October, in the year of our Lord One thousand eight hundred and sixty-three.

THOMAS BELL ELCOCK (L.S.) FLETCHER.

LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1863.

A sketch of the apparatus for collecting the solid portions of sewage
trap and the grating operates as a filter. I propose to make this apparatus
of convenient size to remove and empty as often as occasion may require.
Figure 1 represents the apparatus made by preference of the description of
conveniently termed elsewhere.

(A) is the main receptacle; (B) the inner band, by which solid and fluid
sewage is carried into the receptacle (A); (C) is the outer band, by which
the fluid sewage filtered through the grating or strainer (B) is conducted to
the sewer, the solid sewage remaining as a deposit at the bottom of the
receptacle (A), the large body of water above this deposit acts as a double
stand trap, and effectually prevents the escape of any effluvia.

The entire apparatus may be removed or emptied when necessary, or for
the greater convenience of removal of the deposit, the apparatus may be
furnished with limbs or buckets, as seen in Figures 2 and 3, which buckets
may be perforated at the top, and thus act as strainers, filtering the sewage as
the grating does in Figure 1; these buckets or limbs can be frequently
withdrawn and emptied without displacing the apparatus generally.

Another modification of the apparatus may be formed by employing two
large rollers or cylinders one within the other, the inner band passing into the
internal cylinder, the outer band leading out of the external one; the part of
the internal cylinder below the head of rollers and above the bucket may be
perforated to act as a strainer.

Having thus described the nature of my said invention and in what manner
the same is to be performed, I claim, without limiting myself to these precise
details, the improvements in apparatus for collecting the solid portions of
sewage, as herein more fully set forth and specified.

In witness whereof, I, the said Thomas Bell Black, Fletcher, have
hereunto set my hand and seal, this Thirtieth day of October, in
the year of our Lord One thousand eight hundred and sixty-three.

THOMAS BELL BLACK (Jr.) FLETCHER

LONDON:
Printed by GEORGE MORRIS and WILLIAM STODOLSKY,
Printers to the Queen's most Excellent Majesty, 1863.

FIGURE 2.

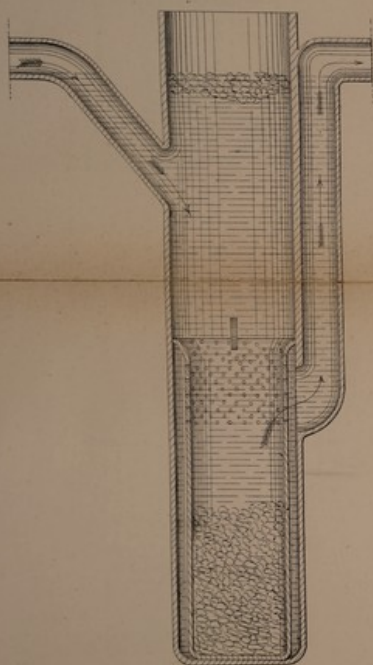


FIGURE 1.

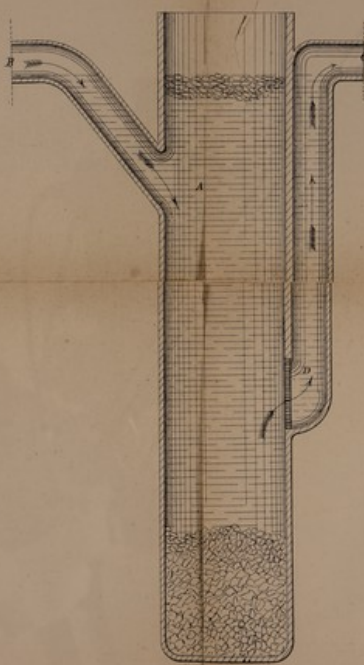
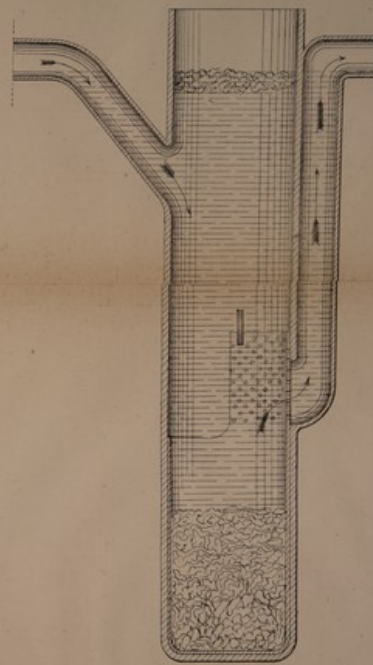


FIGURE 3.



The filed drawing is not colored.

Drawn on Stone by Melby & Sons.

