

## **Specification of John Newton : stench trap.**

### **Contributors**

Newton, John.

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A.D. 1865, *23rd August.* N° 2167.

SPECIFICATION

OF

JOHN NEWTON.

STENCH TRAP.

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,

PRINTERS TO THE QUEEN'S MOST EXCELLENT MAJESTY:

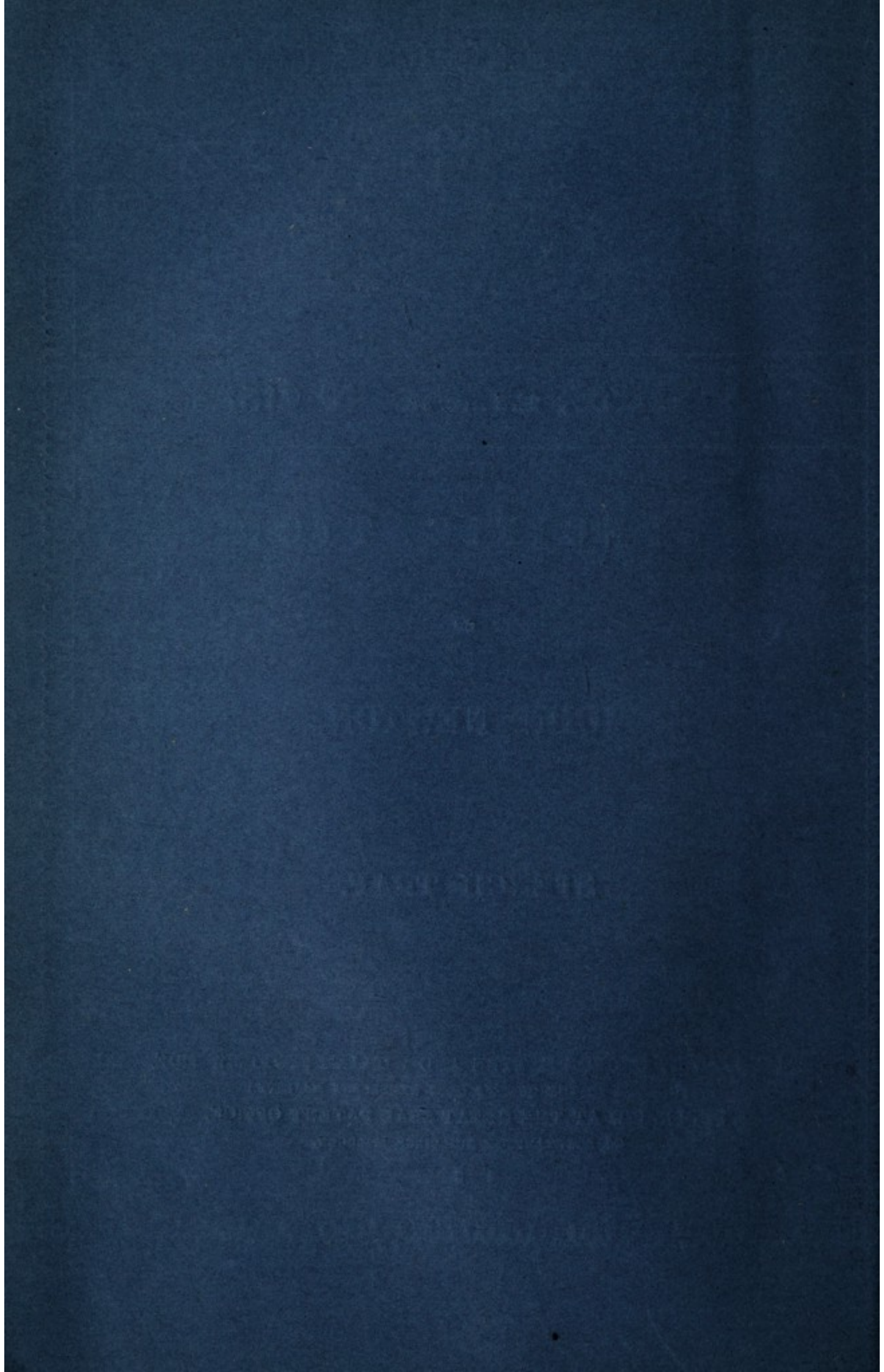
PUBLISHED AT THE GREAT SEAL PATENT OFFICE,

25, SOUTHAMPTON BUILDINGS, HOLBORN.

*Price 6d.*

1866.









A.D. 1865, 23rd August. N° 2167.

### Stench Trap.

**LETTERS PATENT** to John Newton, of Preston, in the County of Lancaster, Civil Engineer, for the Invention of "**AN IMPROVED GULLY OR STENCH TRAP FOR THE PREVENTION OF THE ESCAPE OF NOXIOUS EFFLUVIA FROM DRAINS OR SEWERS, AND FOR PREVENTING THE INGRESS OF SAND OR OTHER SOLID MATTERS INTO THE SAME.**"

Sealed the 20th February 1866, and dated the 23rd August 1865.

**PROVISIONAL SPECIFICATION** left by the said John Newton at the Office of the Commissioners of Patents, with his Petition, on the 23rd August 1865.

I, JOHN NEWTON, of Preston, in the County of Lancaster, Civil Engineer,  
5 do hereby declare the nature of the said Invention for "**AN IMPROVED GULLY OR STENCH TRAP FOR THE PREVENTION OF THE ESCAPE OF NOXIOUS EFFLUVIA FROM DRAINS OR SEWERS, AND FOR PREVENTING THE INGRESS OF SAND OR OTHER SOLID MATTERS INTO THE SAME,**" to be as follows:—

The object of this Invention is the construction of gullies or stench traps  
10 which will be more effective in operation and more convenient for fixing and refixing than gullies or stench traps hitherto adopted.

My Invention consists of the following parts:—First, an iron grating with a hopper attached thereto, or cast therewith, which reduces evaporation to a minimum in summer, and prevents freezing of the contents of the "sludge  
15 box," which said hopper rests in the socket of the sludge box, on the side of which sludge box is cast a syphon arm, or branch, forming a complete trap,



*Newton's Improved Gully or Stench Trap.*

through which the water passes into the drains, the said stench trap being operative at all times, whether the sludge box is full or empty, and can be readily cleared out with a scoop should such operation be necessary. On the upper part of the syphon trap is an opening fitted with a moveable stopper, so as to facilitate inspection or flushing of the drains. 5

**SPECIFICATION** in pursuance of the conditions of the Letters Patent, filed by the said John Newton in the Great Seal Patent Office on the 22nd February 1866.

**TO ALL TO WHOM THESE PRESENTS SHALL COME, I, JOHN NEWTON,** of Preston, in the County of Lancaster, Civil Engineer, send 10 greeting.

**WHEREAS** Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Twenty-third day of August, in the year of our Lord One thousand eight hundred and sixty-five, in the twenty-ninth year of Her reign, did, for Herself, Her heirs and successors, give and grant 15 unto me, the said John Newton, Her special licence that I, the said John Newton, my executors, administrators, and assigns, or such others as I, the said John Newton, 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 20 make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for "AN IMPROVED GULLY OR STENCH TRAP FOR THE PREVENTION OF THE ESCAPE OF NOXIOUS EFFLUVIA FROM DRAINS OR SEWERS, AND FOR PREVENTING THE INGRESS OF SAND OR OTHER SOLID MATTERS INTO THE SAME," upon the condition 25 (amongst others) that I, the said John Newton, my executors or administrators, by an instrument in writing under my, or their, or one of their hands and seals, 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 30 months next and immediately after the date of the said Letters Patent.

**NOW KNOW YE,** that I, the said John Newton, 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:—

The object of this Invention is the construction of gullies or stench traps



*Newton's Improved Gully or Stench Trap.*

which will be more effective in operation, and more convenient for fixing and refixing than gullies or stench traps hitherto adopted.

My Invention consists of the following parts:—First, an iron grating with a hopper attached thereto or cast therewith, which reduces evaporation to a minimum in summer, and prevents freezing of the contents of the “sludge box,” which said hopper rests in the socket of the sludge box, on the side of which sludge box is cast or attached a syphon arm or branch, forming a complete trap, through which the water passes into the drains, the said stench trap being operative at all times, whether the sludge box is full or empty, and can be readily cleared out with a scoop, should such operation be necessary. On the upper part of the syphon trap is an opening fitted with a moveable stopper, so as to facilitate inspection or flushing of the sewers or drains.

Such being the nature of my said Invention, I will now proceed to describe the same more fully, and in order that the same may be distinctly understood, I have hereunto annexed a Sheet of Drawings illustrative thereof, and have marked the same with letters of reference, the same letter referring to the same part in the different views.

Fig. 1 is a vertical section of my improved street gully or stench trap; and Fig. 2 is a plan of the same.

At A is shewn the iron grate, to which is cast the hopper B; the introduction of this hopper reduces evaporation to a minimum in summer, and by offering so small a surface (through the mouth C) to the action of the air prevents freezing of the contents of the sludge box D; the hopper has a flange cast thereon, on which it rests, as shewn at *d*. At E is shewn the syphon or branch divided by the midfeather F, thus forming a complete trap, through which water passes to the sewers or drains by the outlet G, the return of noxious gasses or vapours being effectually prevented by the water lodging in the syphon or branch E, and by the midfeather F; at H is shewn a stopper, which may be lifted out, for the purpose of introducing a hose pipe for flushing or inspecting the sewers or drains.

The apparatus above described combines economy with efficiency and durability, and offers great facilities for fixing or refixing when the latter is necessary through any cause.

Having thus fully described the nature and particulars of my Invention for “An Improved Gully or Stench Trap for the Prevention of the Escape of Noxious Effluvia from Drains or Sewers, and for Preventing the Ingress of Sand or other Solid Matters into the same,” together with the manner in which the same is to be or may be performed or carried into practical effect, I would have it distinctly understood, that although I have described and shewn in the



*Newton's Improved Gully or Stench Trap.*

Drawings the grate, sludge box, and hopper, I do not claim them, as they are old and well understood; but what I do claim as my Invention is, the syphon or trap above fully described and illustrated in the accompanying Drawings.

In witness whereof, I, the said John Newton, have hereunto set my hand and seal, this Twenty-first day of February, in the year of our Lord One thousand eight hundred and sixty-six.

JOHN NEWTON. (L.S.)

Witness,

WALTER BRIERLEY,

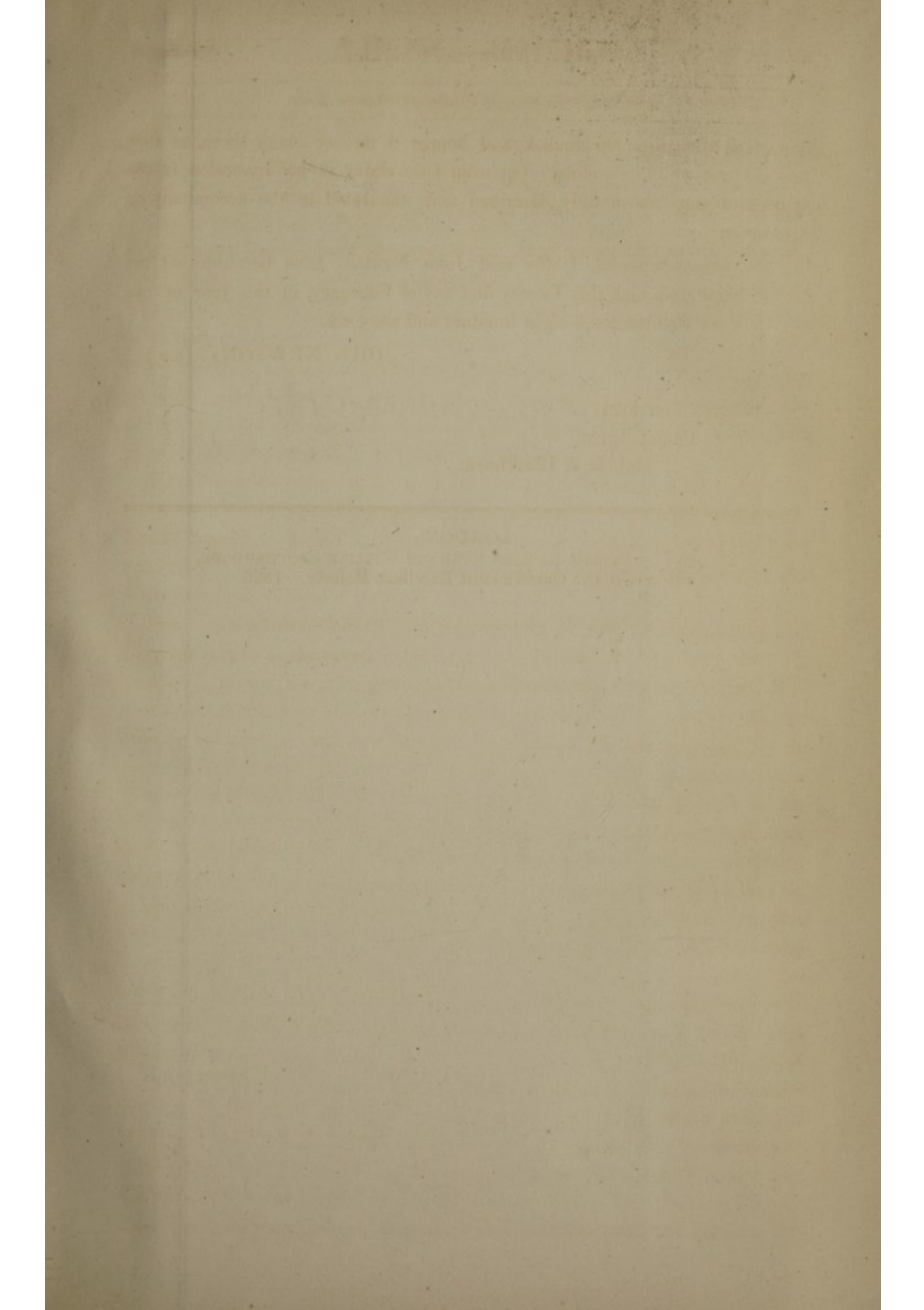
Patent Agent,

Halifax & Blackburn.

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LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,  
Printers to the Queen's most Excellent Majesty. 1866.





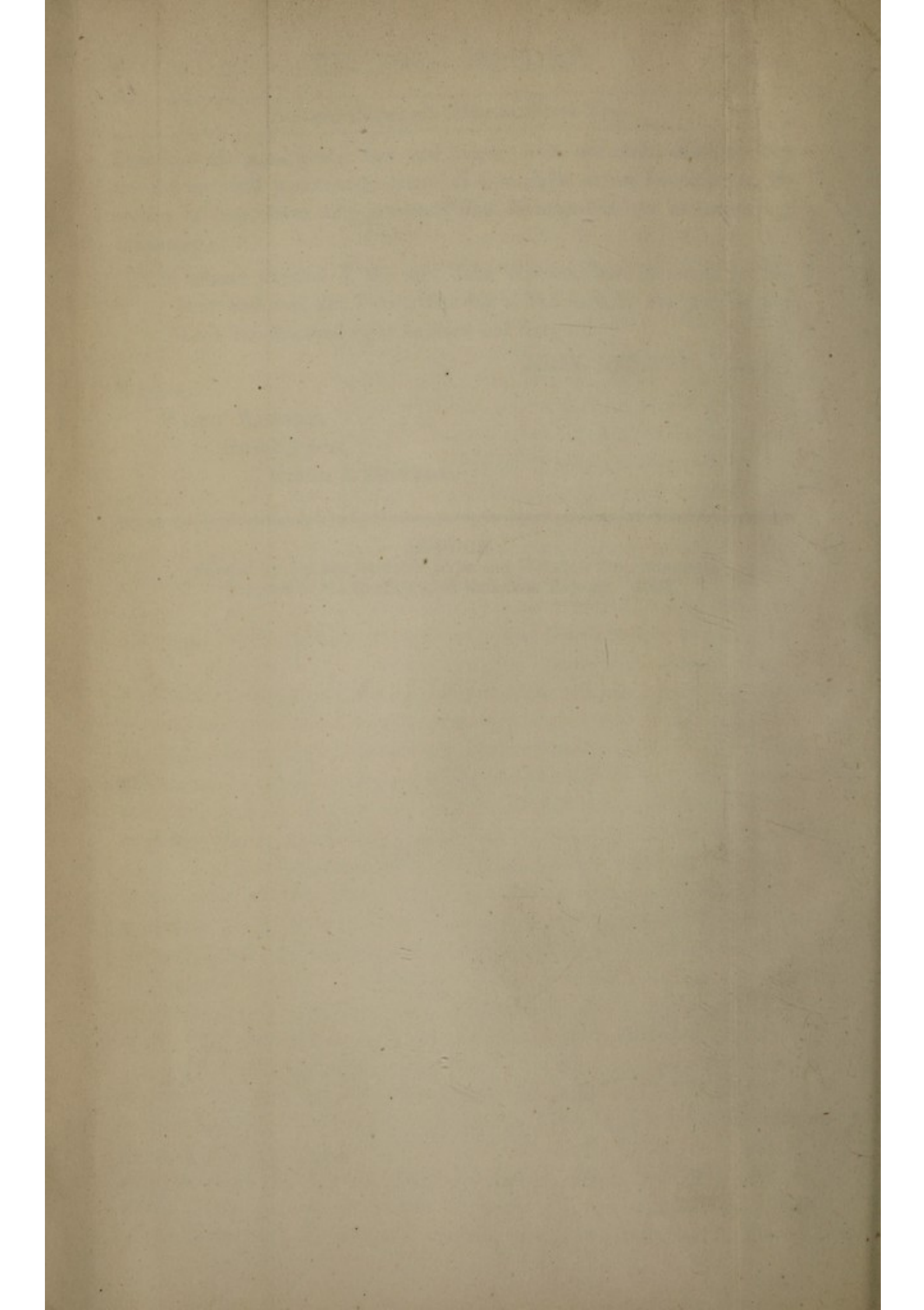




FIG. 1.

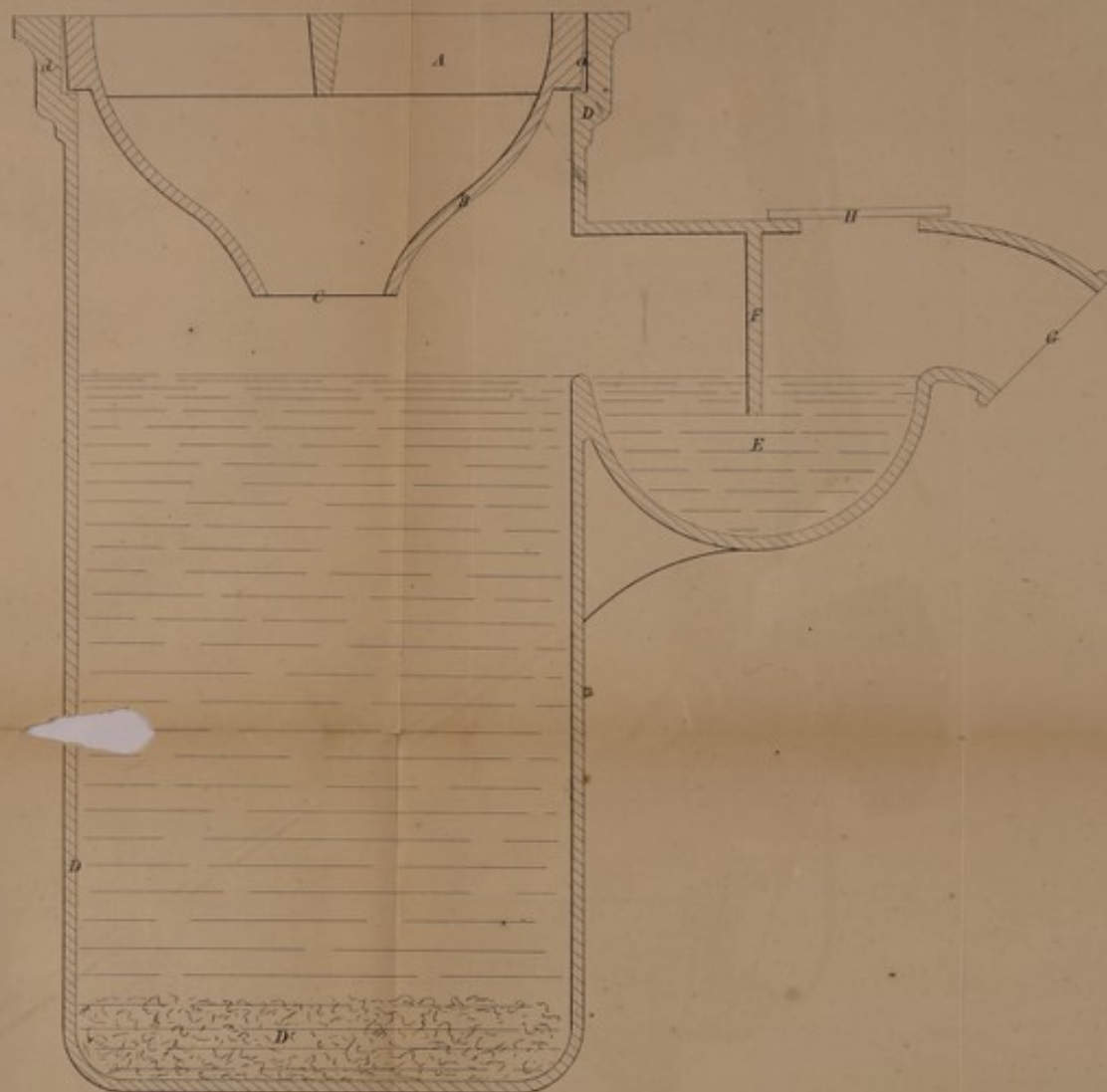


FIG. 2.

