

Specification of William Lewis : forming pills.

Contributors

Lewis, William.

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A. D. 1852. N° 139.

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

OF

WILLIAM LEWIS.

FORMING PILLS.

LONDON:

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

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NEAR FLEET STREET.

Price 6½d.

1854.





A.D. 1852 N° 139.

Forming Pills.

LETTERS PATENT to William Lewis, of Piccadilly, in the County of Middlesex, Surgeon and Apothecary, for the Invention of "**IMPROVEMENTS IN COMPOUNDING MEDICINES IN THE FORM OF PILLS.**"

Sealed the 30th March 1853, and dated the 1st October 1852.

PROVISIONAL SPECIFICATION left by the said William Lewis at the Office of the Commissioners of Patents, with his Petition, on the 1st October 1852.

I, WILLIAM LEWIS, of Piccadilly, in the County of Middlesex,
5 Surgeon and Apothecary, do hereby declare the nature of the said Invention for "**IMPROVEMENTS IN COMPOUNDING MEDICINES IN THE FORM OF PILLS**" to be as follows:—

The Invention consist of rolling out the compounded medicine, when in a plastic state, into sheets, and then passing such sheets between
10 cylinders or rollers having corresponding indents to produce spherical forms suitable for pills.

Lewis' Improvements in Compounding Medicine in the Form of Pills.

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said William Lewis in the Great Seal Patent Office on the 1st April 1853.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, WILLIAM LEWIS, of Piccadilly, in the County of Middlesex, Surgeon 5 and Apothecary, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the First day of October, in the year of our Lord One thousand eight hundred and fifty-two, in the sixteenth year of Her reign, did, for Herself, Her heirs and successors, 10 give and grant unto me, the said William Lewis, Her special licence that I, the said William Lewis, my executors, administrators, and assigns, or such others as I, the said William Lewis, 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 15 therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the Channel Islands, and Isle of Man, an Invention for "**IMPROVEMENTS IN COMPOUNDING MEDICINE IN THE FORM OF PILLS,**" upon the condition (amongst others) that I, the said William Lewis, by an instrument 20 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. 25

NOW KNOW YE, that I, the said William Lewis, do hereby declare the nature of the said Invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement thereof (that is to say) :

The Invention consists in rolling out the compounded medicine, when 30 in a plastic state, into sheets, and then pressing such sheets between cylinders or rollers having corresponding indents to produce sperical forms suitable for pills. And in order that my said Invention may be

Lewis' Improvements in Compounding Medicine in the Form of Pills.

most fully understood, and readily carried into effect, I will proceed to describe the means pursued by me.

DESCRIPTION OF THE DRAWINGS.

Figure 1, is a transverse section of the machine used for forming the
5 compounded medicine when in a plastic state into pills; Figure 2, is a longitudinal section thereof; Figure 3, is a plan; and Figure 4, shows some of the details separately on a somewhat larger scale than the other Figures. *a, a*, are two cylinders having similar and corresponding
recesses formed thereon; in each of these recesses is a forcer *b*, for de-
10 livering the pills from the recesses should they adhere. These forciers are fixed on bars *b'*, which are guided by the plates *c*, with radial slits, and in order that they may at all times have a tendency to remain within the cylinders, springs *d, d*, are used on the end forciers of each bar *b'*, such
outer forciers *b*, acting only for that purpose and for guiding the others
15 by passing through holes *e*, in the cylinders, as shown; *f, f*, are scrapers or doctors for removing any of the matters which may adhere. The cylinders revolve on the fixed axes *g, g*; such axes have formed or fixed thereon cams *g', g'*, for the purpose of acting on the forciers, and thus forcing out the pills from the recesses by causing the forciers to move
20 out; and *h, h*, are scrapers by which any adhering matters are removed from the ends of the forciers. In some cases the compounded medicine is first rolled into sheets in as dry a state as may be, and in order that the same may not adhere to the moulding cylinders *a*, suitable powder is dusted over the surfaces, and the sheets of a proper width are then
25 passed between the cylinders, and thus moulded, but it is not essential that the compounded medicine should be first rolled into sheets. *i*, is a hopper, which is used when the medicine is not first rolled into sheets; into this hopper the compounded medicine is placed in as dry a state as possible, and only rendered plastic to an extent to hold together
30 when pressed into shape by the moulding cylinders *a, a*. Motion is given to the machine by means of the crank handle *j*, which gives motion by the pinion *k*, to the cog wheel *l*, fixed on one of the cylinders *a*, and the two cylinders *a, a*, are geared together by means of the cog wheels *m, m*.

Lewis' Improvements in Compounding Medicine in the Form of Pills.

Having thus described the nature of my Invention, and the manner of performing the same, I would have it understood that I make no claim to the parts separately, nor do I confine myself to the details shown and described, provided the peculiar character of my Invention as herein described be retained; but what I claim is, the combination 5 of mechanical parts herein described for compounding medicine in the form of pills.

In witness whereof, I, the said William Lewis, have hereunto set my hand and seal, this Thirty-first day of March, in the year of our Lord One thousand eight hundred and fifty-three. 10

WILLIAM LEWIS. (L.S.)

Witness,

EDWARD LEVETT.

LONDON:

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1854.

Fig 1

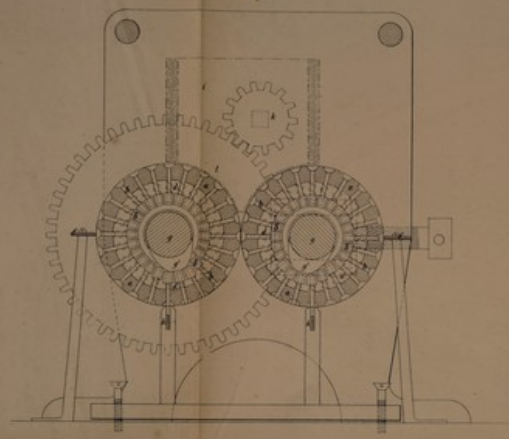


Fig 2

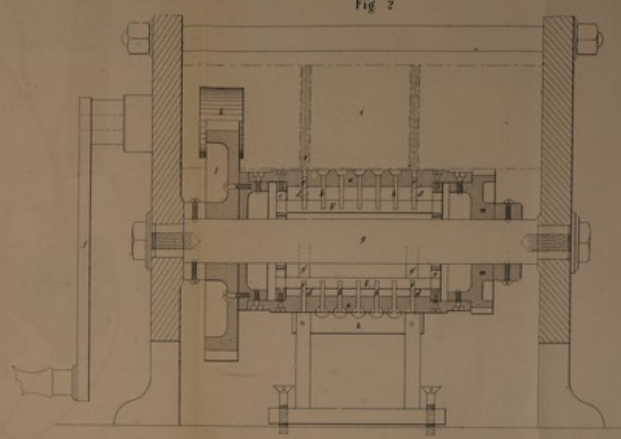


Fig 4

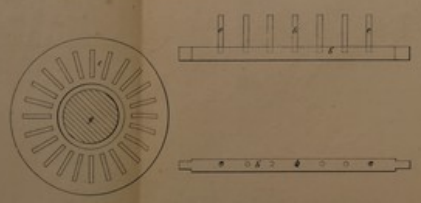


Fig 3

