

Specification of Edward Loysel : injecting apparatus.

Contributors

Loysel, Edward.

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A.D. 1854 N° 2750.

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

OF

EDWARD LOYSEL.

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I N J E C T I N G A P P A R A T U S .
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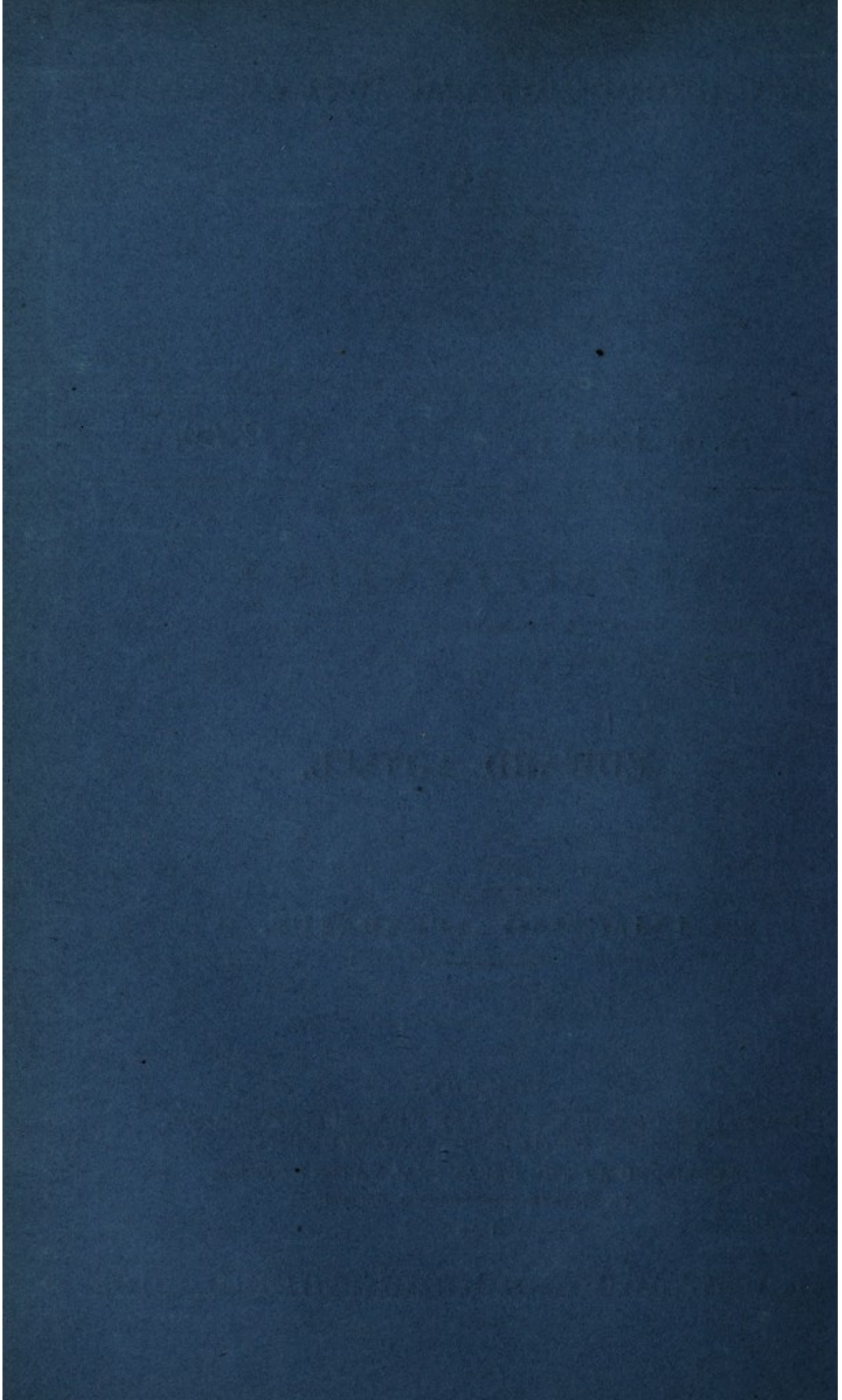
L O N D O N :

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A.D. 1854 N° 2750.

Injecting Apparatus.

(This Invention received Provisional Protection, but notice to proceed with the application for Letters Patent was not given within the time prescribed by the Act.)

PROVISIONAL SPECIFICATION left by Edward Loysel at the Office of the Commissioners of Patents, with his Petition, on the 29th December 1854.

I, EDWARD LOYSEL, of Rue de Grétry, Paris, in the Empire of France,
5 Civil Engineer, do hereby declare the nature of the said Invention for "AN IMPROVED LAVEMENT OR INJECTING MACHINE" to be as follows:—

In the apparatus or machines hitherto constructed and employed for lavement purposes, the liquid is injected by the pressure of a piston, either worked by hand or by means of a coiled or other spring made to act on the upper
10 surface of the piston. When the piston is worked by the hand, there is great liability of the patient injuring himself, by exerting too much force; and it has likewise been found that the muscles of the loins, when brought into play to work the machine, will to a certain extent prevent the proper action of the lavement on the bowels, and counteract the beneficial effects of the operation.
15 To obviate these inconveniences, attempts have been made to make self-acting lavement machines, in which the piston is forced down by means of a spring, as above mentioned. Although machines made on this principle will work properly for a time, they are more costly and more complicated in construction than the former ones, and are exceedingly likely to get out of order, especially
20 as they cannot be cleaned with convenience and facility by ordinary servants.

Loysel's Improved Lavement or Injecting Machine.

In my improved lavement machine the liquid is injected by hydrostatic pressure alone, and the piston, springs, and other complicated contrivances of the apparatus hitherto employed are altogether dispensed with. The most simple form of apparatus consists of a vase, made of glass, earthenware, metal, or other suitable material, and having an opening at the lower part, to which 5 is connected a flexible tube of any convenient length, and provided at the opposite end with a jet or nozzle of appropriate form, and also with a stop-cock for regulating or cutting off the supply of the liquid. In operating with this machine, it will only be requisite to fill the vase with the liquid, and place the vase at a proper elevation above the patient, so as to cause the liquid 10 to flow with facility. This may be done either by supporting the vase from a hook in the wall of the apartment, or placing it on a shelf at a suitable altitude.

Another great objection to the present form of lavement or injecting apparatus is, that when a preparation composed of liquids of different specific 15 gravities is employed, as of water, and oil, or honey, the different ingredients will soon separate in the vase, and consequently will not be injected in the proper proportions. In order to obviate this difficulty, I propose to adapt to the lid of my machine a small stirring apparatus, which will be actuated by a spring, and cause fans or stirrers to rotate in the liquid, and keep the ingredients 20 well mixed.

When the machine is out of use the inside of the vase may be wiped clean with facility, and the flexible tube coiled round and placed inside the vase, which may then be packed away without inconvenience. It is obvious that this improved apparatus may be used for animals as well as for human beings, 25 it being only necessary to increase the size for horses or other large animals. I would also observe that, if required, or considered advisable, a thermometer may be adapted to the vase, to indicate the temperature of the liquid contained therein before using the same. It will also be found convenient to graduate the vase, in order to be able with accuracy to ascertain the quantity it will 30 contain, or that may be required for persons of different ages.

LONDON :

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Printers to the Queen's most Excellent Majesty. 1855.