

Specification of Ebenezer Diver : obstetric apparatus.

Contributors

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A.D. 1873, 28th NOVEMBER. N° 3892.

SPECIFICATION

OF

EBENEZER DIVER.

—
OBSTETRIC APPARATUS.
—

LONDON:

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
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1874.





A.D. 1873, 28th NOVEMBER. N° 3892.

Obstetric Apparatus.

LETTERS PATENT to Ebenezer Diver, M.D., M.R.C.S., of Caterham Valley, in the County of Surrey, for the Invention of "IMPROVEMENTS IN OBSTETRIC APPARATUS."

Sealed the 15th May 1874, and dated the 28th November 1873.

PROVISIONAL SPECIFICATION left by the said Ebenezer Diver at the Office of the Commissioners of Patents, with his Petition, on the 28th November 1873.

I, EBENEZER DIVER, M.D., M.R.C.S., of Caterham Valley, in the County of Surrey, do hereby declare the nature of the said Invention for "IMPROVEMENTS IN OBSTETRIC APPARATUS," to be as follows:—

The object of this Invention is to give assistance to women in labour. For this purpose I employ a pad, which is applied to the back of the patient and there secured, and with this two stirrups for the feet are also employed. The stirrups are arranged to run upon a cord, which is connected with the back pad, so that any pressure exerted by the feet is communicated through the pad to the back of the wearer. Between the stirrups there is a handle, which is also free to run upon the cord, so

Diver's Improvements in Obstetric Apparatus.

that the hands can be employed to pull in opposition to the feet, and at the same time the pad is pressed against the back, as already explained.

I prefer also to employ to employ a front pad immediately over the womb. The front and back pads are bound together by a running 5 cord, which becomes tightened as strain is applied to it by pressure of the feet in the stirrups.

The apparatus thus allows the muscles of both the extremities to be exerted, and thereby affords relief to the patient, both directly from the exertion, and indirectly by causing such exertion to result in pressure 10 upon the body in localities where pressure is required.

SPECIFICATION in pursuance of the conditions of the Letters Patent, filed by the said Ebenezer Diver in the Great Seal Patent Office on the 28th May 1874.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, EBENEZER 15
DIVER, M.D., M.R.C.S., of Caterham Valley, in the County of Surrey, send greeting.

WHEREAS Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Twenty-eighth day of November, in the year of our Lord One thousand eight hundred and seventy-three, in the 20 thirty-seventh year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Ebenezer Diver, Her special license that I, the said Ebenezer Diver, my executors, administrators, and assigns, or such others as I, the said Ebenezer Diver, my executors, administrators, and assigns, should at any time agree with, and no others, 25 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 Islands, and Isle of Man, an Invention for "**IMPROVEMENTS IN OBSTETRIC APPARATUS,**" upon the condition (amongst others) that I, the said 30 Ebenezer Diver, 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

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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 Ebenezer Diver, 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 object of this Invention is to give assistance to women in labour. For this purpose I employ a pad, which is applied to the back of the patient and there secured, and with this two stirrups for the feet are also employed. The stirrups are arranged to run upon a cord, which is connected with the back, so that any pressure exerted by the feet is communicated through the pad to the back of the wearer. Between the stirrups there is a handle, which is also free to run upon the cord, so that the hands can be employed to pull in opposition to the feet, and at the same time the pad is pressed against the back, as already explained.

I prefer also to employ a front pad immediately over the womb. The front and back pads are bound together by a running cord, which becomes tightened as strain is applied to it by pressure of the feet in the stirrups.

The apparatus thus allows the muscles of both the extremities to be exerted, and thereby affords relief to the patient, both directly from the exertion, and indirectly by causing such exertion to result in pressure upon the body in localities where pressure is required.

The annexed Drawing shews the apparatus as I prefer to construct it. *a* and *b* are two broad pieces of leather, which may be lined with velvet. The piece *a* is intended to be applied to the back of the patient, and the piece *b* is to pass across the abdomen. A thick pad *a*¹ is attached to the piece *a* in a position to bear against the spine. *c* is a strong cord attached at its two extremities to leather ends, which pass over studs *a*², one on either side of the piece *a*. The length of the cord between the leather ends is adjustable. This may be managed in any convenient way. A good arrangement is to make one of the leather ends tubular, so that the cord can run through it, and then the cord is stopped at any desired length by a knot tied in it. The cord runs through leather loops *b*¹, *b*¹, attached to the piece *b*, and then returns and passes through

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other similar loops a^3 , a^3 , attached to the piece a , so that by pulling the cord tight the two bands a and b are drawn together, and then the pad a^1 is pressed firmly against the spine in the region above the hips, whilst an equal pressure but more widely distributed is applied over the abdominal region. The cord c is rove through metallic eyes d^1 , d^1 , let into two leather velvet lined stirrups d , d , and also through the hollow wooden handle e , which is between the stirrups. The stirrups d , d , may be provided with sandle-like soles.

The handle e may be held by the patient either directly or by the cord e^1 attached to it, and relief to the sufferings of the patient is obtained by the exercise of the muscles of the upper in opposition to those of the lower extremities. By the same exertion of the muscles the back pad a^1 is caused to be pressed on the spine, and at the same time a general pressure tending to expel the child from the womb is exerted upon the abdomen.

In some cases it may be preferred to fasten the end of the cord c to the head of the bed on which the patient lies, and then the muscles of the lower extremities will be exerted against this fixed resistance.

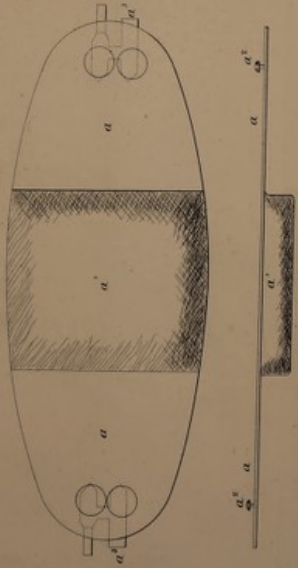
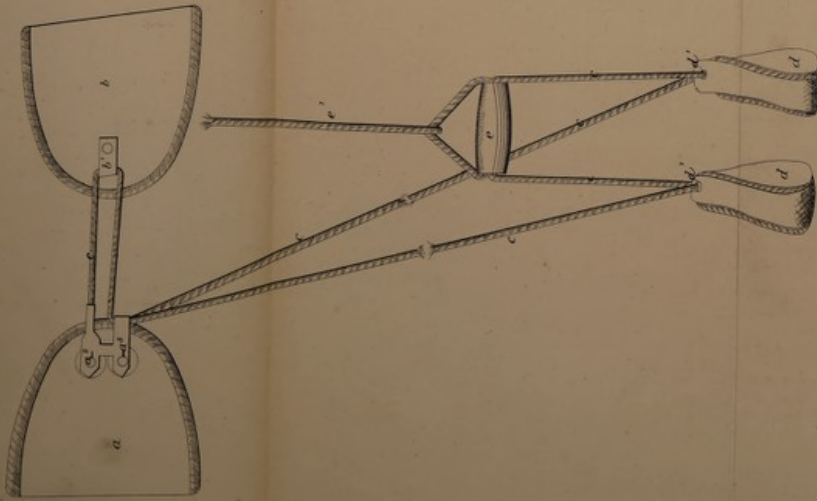
Having thus described the nature of my said Invention, and the manner of performing the same, I would have it understood that I do not confine myself to the exact details described, but I claim, the combination of a back pad with stirrups in such manner that pressure exerted by the feet is communicated through the pad to the back of the wearer, substantially as described.

In witness whereof, I, the said Ebenezer Diver, have hereunto set my hand and seal, this Twenty-third day of May, in the year of our Lord One thousand eight hundred and seventy-four.

E. DIVER. (L.S.)

LONDON :

Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1874.



The filed drawing is not colored.

Drawn on Sheet by M. J. & Co.

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