

Improved means of applying heat (dry or with desired substances) to the skin and other surfaces / [Periam Burrows Hardy].

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PROVISIONAL SPECIFICATION.

**Improved Means of Applying Heat (Dry or with Desired Substances)
to the Skin and other Surfaces.**

I, PERIAM BURROWS HARDY, of 106 Powlett Street, East Melbourne, in the State of Victoria, Commonwealth of Australia, Medical Practitioner, do hereby declare the nature of this invention to be as follows:—

The object of this invention is to provide a device by which dry heat can be
5 applied to the skin or to any other surface for various purposes, either alone
or to develop the action of any desired substance, such as finely divided sulphur,
or wholly or partly volatile preparations, such as eucalyptus oil, oil of
winter green, and embrocations generally. Hitherto the application of heat to
the skin has been performed variously as by means of hot flannels, by hot water
10 bags or vessels, or by the well known Japanese hot boxes. These possess various
disadvantages which do not accompany the use of my device, which is
suitable for application to any tender part and so shaped as to easily fit into
recesses or corners. Again my device is such that any germs which may be
deposited upon it may be quickly and with certainty destroyed, so rendering it
15 aseptic; unlike the means above described there is no danger of its being
applied too hot this being especially important to avoid burning. The appliance
has a packing of when desired, non combustible material such as asbestos
in short fibrous, powdered or similar convenient form to form a pad and an
external asbestos surface of any suitable size and form, as convex, spherical,
20 cylindrical, or flat, sufficiently soft to enable its application to be localized as
required. When the pad is cylindrical it is provided with any suitable handle.
In other cases it has the general shape of a powder puff. As a roller it is
heated either in an oven or over a flame (the flame not injuring the asbestos in
any way), and when embrocation or other substance is spread upon any suitable
25 surface it can be thoroughly and advantageously rubbed in by means of
the said heated roller. Ladies using my device in the form resembling a
powder puff, can heat the asbestos facing in any convenient way and then press
the facing against any part of the skin of the face or as required, such parts
having where desired been covered with any preparation to which it is beneficial
30 to apply dry heat. Where my device is to be kept sufficiently long in
contact with any part of the body it is provided with loops or the like by which
to affix it or hold it in place.

Dated this 18th day of January 1904.

HERBERT HADDAN & Co.,
Agents to Applicant.

COMPLETE SPECIFICATION.

**Improved Means of Applying Heat (Dry or with Desired Substances)
to the Skin and other Surfaces.**

I PERIAM BURROWS HARDY of Andover, New York, United States of America
40 and 7 Gower Street, Bedford Square, London W.C. Surgeon formerly of 106
[Price 8d.]

Improved Means of Applying Heat (Dry or with Desired Substances) to the Skin, &c.

Powlett Street, East Melbourne, in the State of Victoria, do hereby declare the nature of this invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement:—

My invention relates to an improved means of applying heat dry or with desired substances to the skin and other surfaces.

Hitherto the application of heat to the skin has been performed in various ways such as by means of hot flannels, hot water bags, hot water bottles and also by the well known Japanese hot boxes, all of which had numerous disadvantages and drawbacks.

By means of my invention these drawbacks are overcome.

My invention is to provide a device by which dry heat can be applied to the skin or to any other surface for numerous purposes either alone or to develop the action of any desired substance such as finely divided sulphur or wholly or partly volatile preparations such as eucalyptus oil, oil of winter green and other embrocations.

My invention may be made as a pad a roller, in the shape of a flat iron in any suitable shape or size.

My invention has a packing of asbestos in short fibrous, powdered or any similar convenient form so as to form a pad having an external surface made of asbestos cloth, in any suitable shape or form and of any suitable size, round oval, square, convex, concave, spherical, cylindrical or flat and made sufficiently soft and pliable so that its application can be localized as required and the said pad can be made covered with asbestos cloth on the side to which heat is applied and the other side when desired may be made of or covered with leather, silk cotton cloth, metal or other suitable substance, and when in the form of a flat iron or other form requiring great heat a sheet of asbestos paper or other non heat conducting substance may be placed between the asbestos packing and the leather, wooden, metal or other surface to prevent the heat injuring those substances and making the handle or part held in the hand too hot, and this will also prevent the heat escaping from the upper surface of the instrument and will force the heat upon the skin or other surface upon which it is desired.

My invention may be heated on the stove or range, in front of a fire, over the incandescent gas burner, in a spirit flame or in any other suitable way, the flame or heat causing no injury to the asbestos cloth or packing in any way.

When the asbestos fibre has incorporated with it anodyne substances which are wholly or are partially volatile this pad is a safe convenient and most efficient instrument for family use for relieving pain, as when the pad is heated the meshes of the asbestos cloth covering permit the escape of the chemical vapour in a most effective form and when not in use the said covering is so made as to prevent rapid deterioration of the medicament. Therefore as it does not deteriorate except when in use it becomes proportionately durable.

When my invention is made in the shape of a roller with a handle it is provided with a solid core of metal or other non combustible substance in order to give it sufficient rigidity to permit of its action as a roller and then when heated, embrocation or other suitable or similar substance may be spread or placed upon the skin or other surface and can be thoroughly rubbed in with great advantage by means of the said heated roller.

My invention when the pad has been impregnated with disinfectant or perfume can also be used as a deodoriser, disinfectant, or perfumer for the sick or other room by holding the pad over a spirit lamp, gas jet or other flame the vapours will be immediately driven off without the heat injuring the pad.

When made in the form of a nail polisher or flat iron with a handle it may be heated and used as a pad to polish silk hats, whilst the ordinary velvet or plush pad would be damaged by heat.

My invention can also be made in the form of a powder puff so that after having been heated, the asbestos surface of the said puff shaped pad can be pressed or rubbed on any part of the skin or face as desired such parts having

Improved Means of Applying Heat (Dry or with Desired Substances) to the Skin, &c.

if desired been covered first with any preparation or embrocation to which it is beneficial to apply heat.

Again my invention is such that any germs which may be deposited upon the pad will be quickly and with certainty destroyed so rendering it aseptic and it has also the advantage that there is no danger of the pad being applied too hot and so avoids burning the surface upon which it is used.

When my invention is required to be kept in contact with any part of the body for a certain time it may be provided with loops or the like so as to affix it or hold it in position.

10 Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is:—

15 A non-inflammable and non combustible pad having a filling of asbestos fibre, pulverized or otherwise, contained in a covering of asbestos cloth in any shape or form, to be used for applying heat to the skin or other surfaces so as to cause any substance previously put on these surfaces to penetrate the same or to be used in the sick or other room to evaporate medical products, perfumes or deodorants which evaporate by heat, substantially as and for the purposes hereinbefore described.

20 Dated this 20th day of May 1904

J. A. S. CATON,
Agent for Applicant.

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