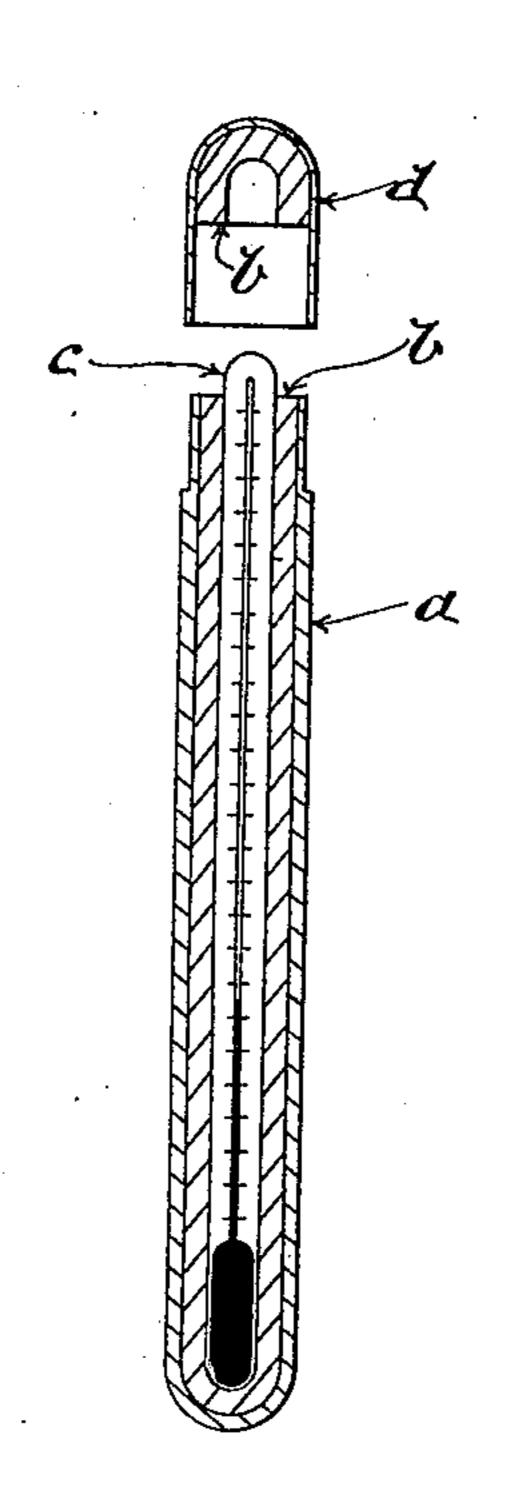
No. 659,642.

Patented Oct. 16, 1900.

A. F. BLAGDON-RICHARDS. CLINICAL THERMOMETER CASE.

(Application filed Jan. 24, 1899.)

(No Model.)



Witnesses.
Buyanni Clark.
Charles H. Briggs.

Inventor;Ablbert, Francis, Blagdon Richards,

per:- E. Eaton.

His Attorney

United States Patent Office.

ALBERT FRANCIS BLAGDON-RICHARDS, OF SWANSEA, ENGLAND.

CLINICAL-THERMOMETER CASE.

SPECIFICATION forming part of Letters Patent No. 659,642, dated October 16, 1900.

Application filed January 24, 1899. Serial No. 703, 305. (No model.)

To all whom it may concern:

Be it known that I, Albert Francis Blag-Don-Richards, a subject of the Queen of Great Britain, and a resident of Swansea, in 5 the county of Glamorgan, England, have invented certain new and useful Improvements in Thermometers, (for which I have applied for a patent in Great Britain, No. 14,437, dated June 30, 1898,) of which the following is a full, clear, and exact specification.

This case is designed to afford a ready means for disinfecting a thermometer after it has been used in taking the temperature of contagious or infectious patients and especially after it has been used for such purpose

in the mouths of such patients. The case used primarily for inclosing and protecting the thermometer is made of a shape and size suitable for this purpose. It 20 consists of two different layers, the outer made of metal, vulcanite wood, or any other suitable non-porous material sufficiently hard and unyielding to afford protection for the fragile instrument inclosed within and an in-25 ner layer composed of any suitable absorbent material—such as wool, spongie piline, felt, textile fabrics of all kinds-or any other material sufficiently coherent and capable of absorbing moisture or being impregnated with 30 any of the antiseptics in use. The two layers may be so made as to be adherent to each other, the outer to the inner, and thus they would be non-detachable, or they may be made distinct from each other, the inner 35 layer being then made to fit inside the outer layer and to slip inside it. If it were made so, there would be in a manner a double case—an outer protection-case and an inner absorbent-case, the inner case being made 40 sufficiently stiff and rigid to retain its shape.

The two layers may, if necessary, be made of the same material, provided that the outer layer be so treated as to render it quite rigid and protective, non-porous, and non-absorbent and that the inner layer be porous and absorbent. When the two layers are made separate and detachable, the inner layer, being of such a nature as to be more perishable than the outer layer, can be made and supplied separately for the purpose of renewal. The inner layers of absorbent material impregnated or to be impregnated with anti-

septics can also be made and supplied separately, so that they can be slipped inside and used with the cases at present in use. When 55 in use, the inner layer if impregnated at the time of making with an antiseptic or antiseptics—such, for instance as boracic acid, salicylic acid, perchlorid of mercury, or any other of the numerous substances used for 60 this purpose—will simply require moistening with water or any other fluid in which such antiseptic is soluble. The thermometer then on being slipped into the case becomes disinfected. The moistening of the inner layer is 65 not absolutely essential for disinfection. If, however, the inner layer when made simply consists of absorbent material, it may when required for use be rendered strongly antiseptic by freely moistening it with any anti- 70 septic of suitable strength, such as carbolicacid solution, perchlorid-of-mercury solution, or any of the other antiseptic solutions in use. It could be moistened thus as often as deemed necessary.

The essential feature of the invention consists in the inner layer or case of absorbent porous material, which may be moistened and rendered strongly antiseptic, thus insuring the disinfection of the thermometer when it is 80

put back in it after use.

For purposes of illustration I will now refer to the annexed drawing, in which the figure is a longitudinal section showing my invention.

The outer casing a may be made of any suitable material such as motel or the like

able material, such as metal or the like. b is an inner casing, which may be formed in one or more layers of any suitable material for the purpose of carrying an antiseptic. I 90 find it convenient in carrying out my invention to employ, say, for instance, a plug of felt, which is bored so as to receive the thermometer c. This inner casing or lining may be impregnated with any required antiseptic, 95 so that when the thermometer is passed into the inner casing any contagious matter lying upon it will be rendered innoxious by coming into contact with the antiseptic or disinfecting substance carried in the inner casing. 100 Although for purposes of illustration I have shown one inner casing or lining, it will be readily seen that there may be two or more, so arranged that the surface engaging or coming

into contact with the thermometer may be renewed by withdrawing the casing or lining which is in contact with the thermometer, and so present a fresh surface for antiseptic 5 purposes. Any convenient form of antiseptic may be employed, either in a dry or moist form. The cap or cover d is provided with a plug or lining of material carrying the required antiseptic, which may be also arranged 10 so as to be renewed when required or present a fresh surface for contact with the thermometer. By this arrangement it will be seen that the thermometer is what may be called "disinfected" and at the same time is

15 protected from injury. . Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

In cases of medical thermometers in combination an outer casing closed by suitable 20 lid or cap, an inner lining or casing formed of felt in two sections, one section being carried in the outer casing and the other in the cap or lid, said felt or inner lining carrying the required antiseptic material being bored or 25 pierced for the reception of the thermometer, substantially as described and illustrated herein and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 30th day of 30

December, 1898.

Witnesses: JOHN W. WILLIAMS,

ALBERT FRANCIS BLAGDON-RICHARDS.