

## **Surgical appliances for restraining the movements of patients / [Avery Whipple Ready].**

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COMPLETE SPECIFICATION.

“Surgical Appliances for Restraining the Movements of Patients”

We, AVERY WHIPPLE READY, of No. 156 Fifth Avenue, in the Borough of Manhattan and City, County and State of New York, United States of America, Merchant, and EDWARD HAMILTON ROSS, of No. 101 East 25th Street, in the Borough of Manhattan and City, County and State of New York, United States of America, Merchant, 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:—

This invention relates to the class of sleeve-like safety appliances designed to prevent children and other persons who may be suffering from eczema, small pox, delirium and the like from injuring their faces or scalps by scratching them; and the object is to provide an appliance which will insure perfect freedom of the circulation, free room for the play of the muscles and growth of the arm, and good ventilation, while it will prevent the touching of the face or head with the hands.

In the accompanying drawings, which illustrate an embodiment of the invention—

Figure 1 is a view of the appliance as a whole, on a relatively small scale.

Fig. 2 is a view on a larger scale illustrating the application of the appliance in use.

Fig. 3 includes two sectional views of one of the tubular sleeves, or sleeve-like protectors.

The appliance consists of two like tubular protectors A, connected by a belt B, provided with shoulder straps *b*. Preferably the protector A will be cylindrical, as seen in the lower view, Fig. 3, which is a cross-section, and will be of celluloid, although other light and stiff material will serve, as for example, aluminium, stiff papier mache, and the like. The sleeve will be shaped at its upper end to fit up under the arm at the arm-pit; that is, it will be hollowed out at *a*, on the inner side or next the body, while the outer side will be elevated, as at *a*<sup>1</sup>. It will be long enough to extend down the arm to or over the wrist joint, as indicated in Fig. 2, and by preference will have in it apertures or perforations *a*<sup>2</sup>, suitably situated to secure ventilation. However, the protector is designed to fit somewhat loosely so that air may circulate about the arm, and so that circulation and growth may not be impeded.

Near the upper end of the protector, on the side which is to be next the body, two slits *a*<sup>3</sup> are formed to receive the belt B. This belt, threaded through said slits encircles the body below the arm-pits somewhat as seen in Fig. 2, and the straps *b* go over the shoulders. The belt B and straps *b* may be of webbing, or any other suitable flexible material.

At its lower or outer end *a*<sup>4</sup> the margin of the protector A will be smooth and rounded so that the patient cannot cut or injure himself on the edge of it; and where the material of the protector is quite thin, there may be a thickened bead formed on the margin at *a*<sup>4</sup>, as seen in the upper view, Fig. 3, which is, in part, a longitudinal mid-section.

I am well aware that it has been proposed to prevent a patient from scratching his face by fitting a short, tubular, coned, metal splint tightly over the elbow and securing it at both ends to the wearer's sleeve by safety-pins; but such a



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device while stiffening the elbow joint, does not prevent the patient from reaching his scalp and tearing it. Moreover, such a device seriously interferes with the circulation, the growth, and the movements of the muscles; and ventilation is wholly unprovided for. My appliance is so constructed and adapted as to permit full freedom and muscular play except to the extent of permitting the patient to reach his head or face with his hands. 5

The belt B may be connected to the sleeves A in any convenient manner, but the point of attachment should be near the upper end of the sleeve so as to avoid too great a tendency to pin the arms of the patient to his body.

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

1. An appliance for the purpose specified, comprising two sleeves or arm-covers of light, stiff material of such dimensions as to loosely enclose the respective arms from the arm-pits to the wrists, and a belt connecting said sleeves near their upper ends and adapted to encircle the body below the arm-pits. 15

2. An appliance for the purpose specified, comprising the two like tubular sleeves or arm-covers A, of stiff material, each being hollowed out at *a*, to fit under the arm at the arm-pit and extending down to the wrist joint and fitting loosely over the arms of the wearer, the belt B, of flexible material extending through slots *a*<sup>3</sup> in said sleeves near their upper ends, and the shoulder straps *b*, *b*, substantially as set forth. 20

3. An appliance for the purpose specified, comprising two like tubular sleeves of stiff material adapted to fit loosely over the respective arms from the arm-pits to the wrist joints and provided with ventilating apertures, and flexible means for connecting said sleeves and securing them to the body, substantially as set forth. 25

Dated this 22nd day of October 1901.

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Wolverhampton Agents for the Applicants. 30

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Fig. 1.

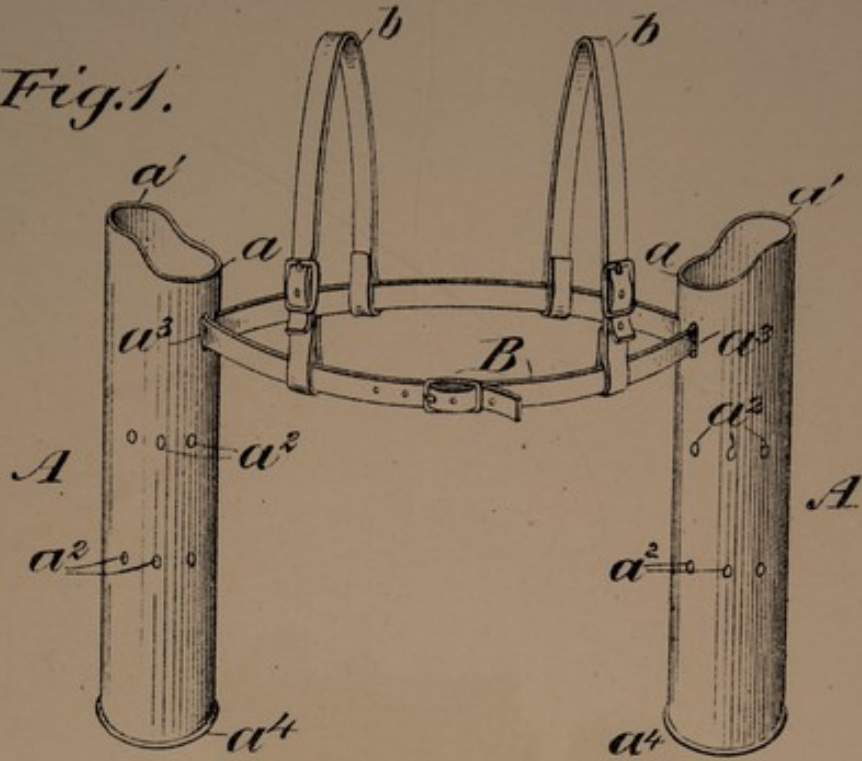


Fig. 2.

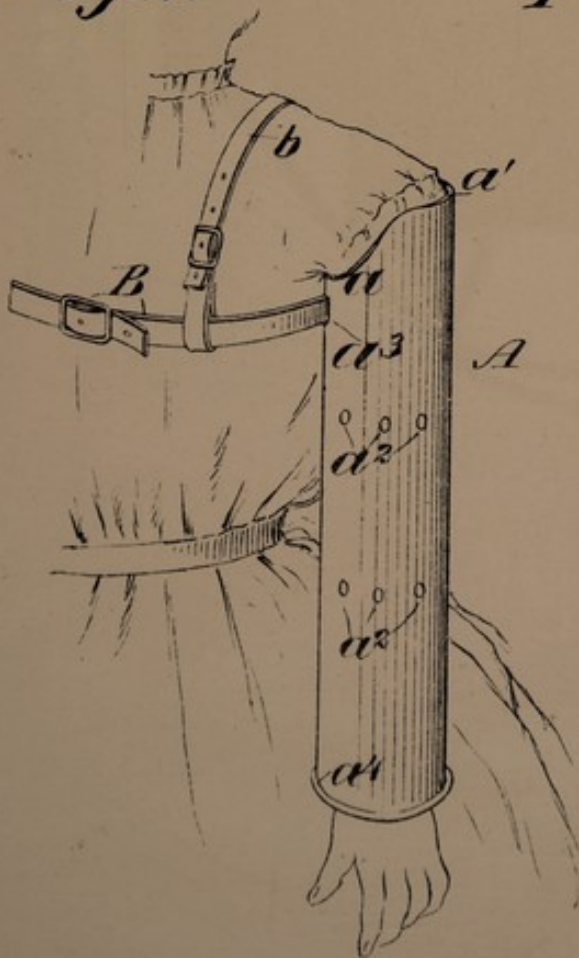
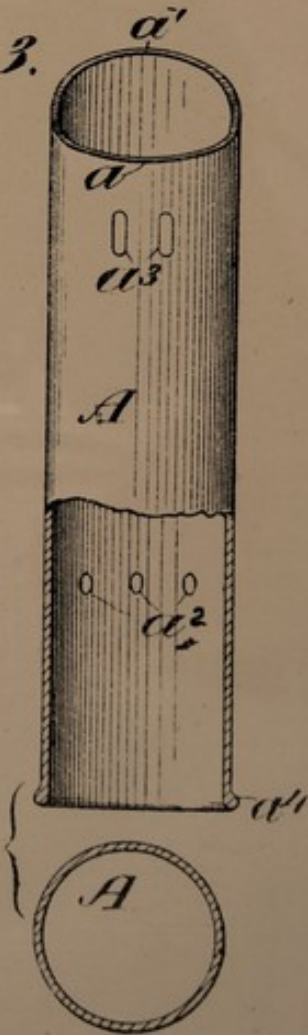


Fig. 3.



[This Drawing is a reproduction of the Original on a reduced scale]



