

No. 755,830.

PATENTED MAR. 29, 1904.

J. ZWIEBEL.  
TUB FOR ELECTRIC BATHS.  
APPLICATION FILED NOV. 24, 1903.

NO MODEL.

Fig. 1.

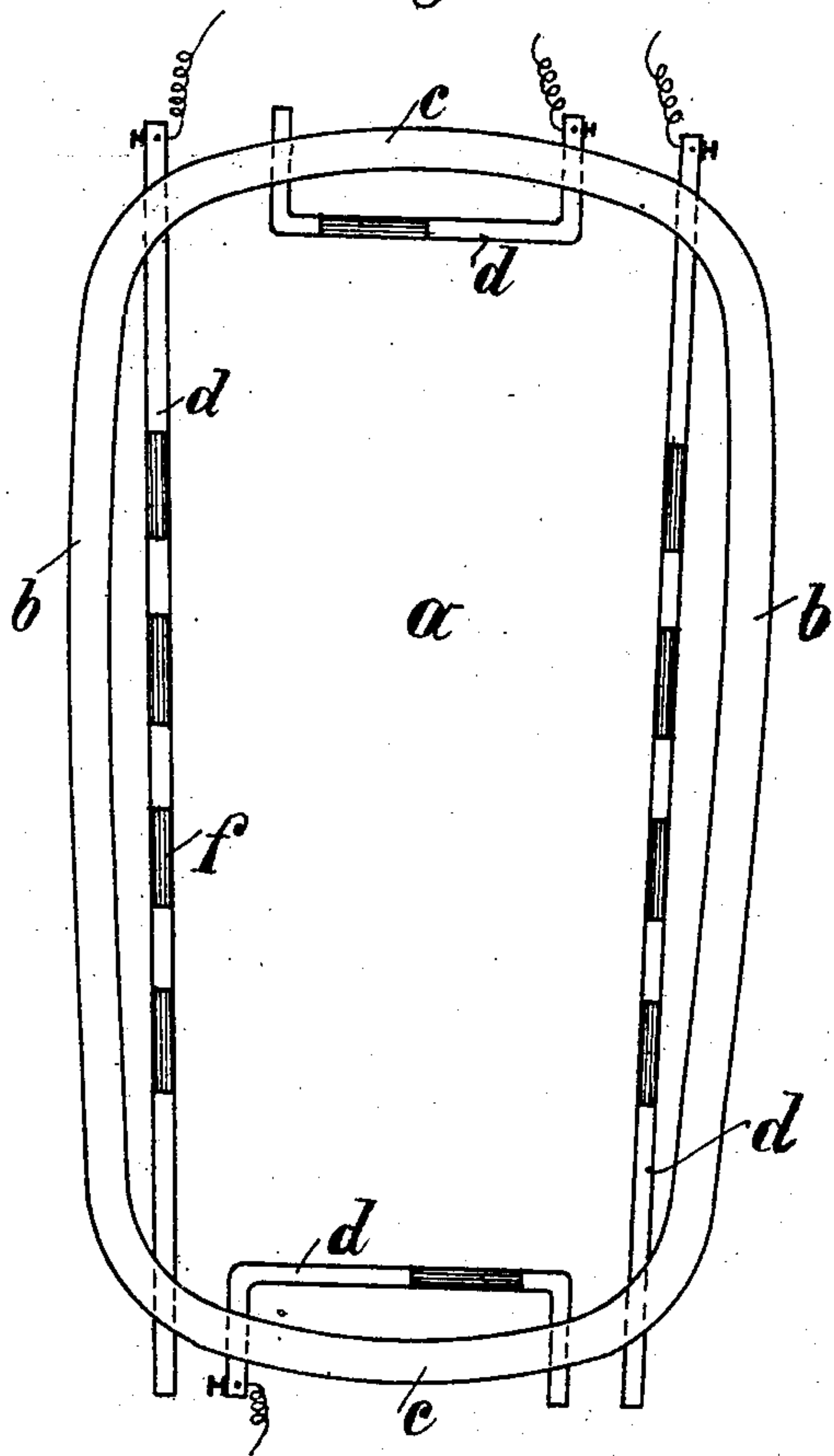
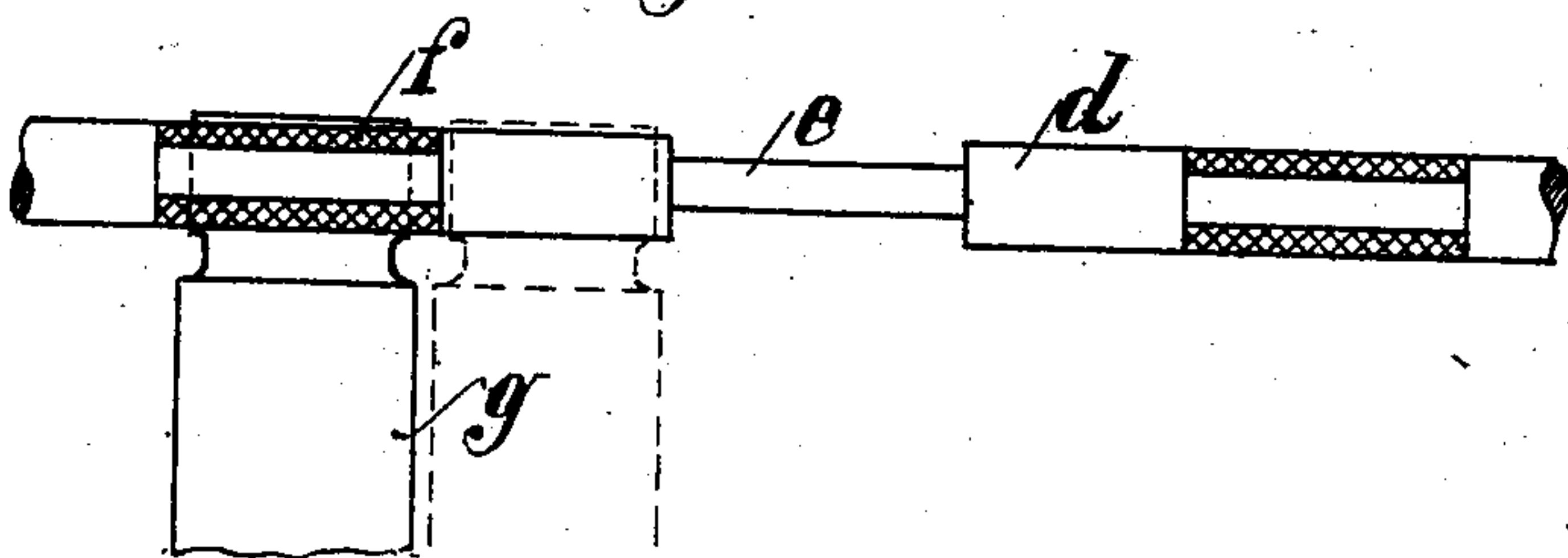


Fig. 2.



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## UNITED STATES PATENT OFFICE.

JOSEF ZWIEBEL, OF NEU-ULM, GERMANY.

## TUB FOR ELECTRIC BATHS.

SPECIFICATION forming part of Letters Patent No. 755,830, dated March 29, 1904.

Application filed November 24, 1903. Serial No. 182,515. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEF ZWIEBEL, proprietor of a sanatory establishment, a subject of the King of Bavaria, residing at Neu-Ulm, Bavaria, German Empire, have invented certain new and useful Improvements in Tubs for Electric Baths, of which the following is a specification.

My present invention relates to an electric-bath tub whereby the person bathing is enabled to connect or disconnect the electrodes without leaving the bath.

The invention is illustrated in the accompanying drawings.

Figure 1 is a top view of the tub. Fig. 2 is a detail view showing the sliding arrangement.

On the upper edge of the tub *a* rods *d*, made of conductive material, on which the electrodes are strung, are provided on the sides *b*, respectively, of foot ends *c* of the tub. These rods may also be placed in recesses of the tub edge to enable a sideward slide of the electrodes. These rods *d* are connected with the poles of the battery, so that the electric current may pass through the body of the person bathing. The electrodes *g* on the rods are preferably made of coal and have metal hooks at the end. The current flows through the metal rods to the electrodes connected to them and from these through the bath.

In order to enable the person bathing to disconnect any of the electrodes in an easy way, the rods *d*, which carry the electrodes *g*, are provided with non-conductive material *f*, according to the invention, so that conductive and non-conductive parts are partly on the rods of the electrodes. In order to have a smooth surface of the rods, the rods *d* are suitably provided with corresponding recesses *e*, which are filled or lined with non-conduc-

tive material *f*. Any kind of non-conductive material may be used—rubber hose, hard rubber, caoutchouc, &c. The current can therefore flow along the conducting parts of the rods to the electrodes. Beneath the isolations *f* the current, however, flows directly through the rod to the next electrode hung up on the conducting part. In case the person bathing wants to disconnect or connect one or more electrodes this can be done by sliding them on the isolations, respectively, on the conducting parts.

The electric shock received by touching the electrodes is not sensitive. This can be avoided by covering the electrodes with suitable wrappings or with isolation material.

In order to have the current-circuit through the body of the person bathing from head to foot, electrodes are also fixed on electrode-rods at the foot ends *c* of the tub. These electrodes may also be supplied with isolations.

What I claim, and desire to secure by Letters Patent of the United States, is—

An electric-bath tub with rods of conductive material on the sides for stringing up the electrodes, the rods carrying the electrodes provided at certain distance with isolation material, as hard rubber, &c., suitably fitted in recesses for the purpose of cutting off the different electrodes from the current by sliding on isolating parts substantially as and for the purpose set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

JOSEF ZWIEBEL.

Witnesses:

HERM. M. SCHELLING,  
ABRAHAM SCHLESINGER.