No. 711,550. Patented Oct. 21, 1902.

# C. ZIBULSKI.

## ADJUSTABLE ARM REST.

(Application filed Mar. 16, 1900.)

(No Model.)

Fig. 5.

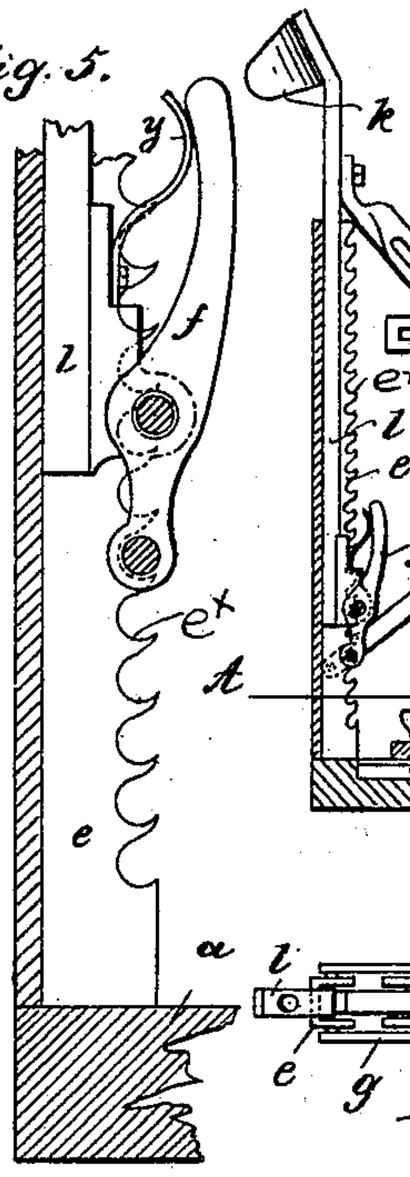



Fig. 4.

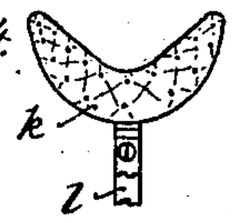



Fig. 1.




Fig. 6.

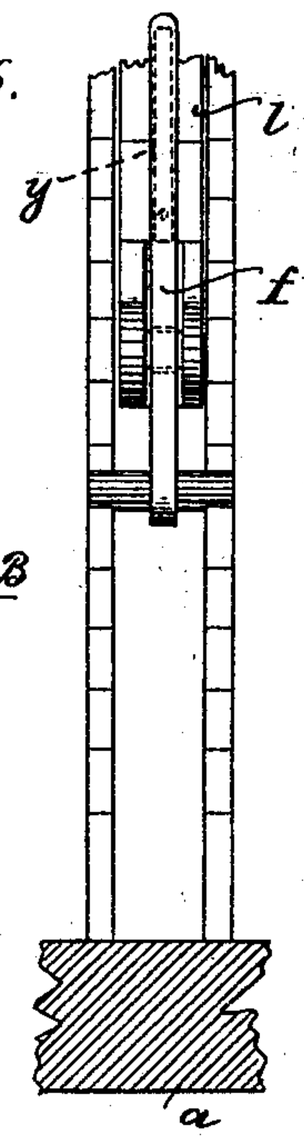



Fig. 3.

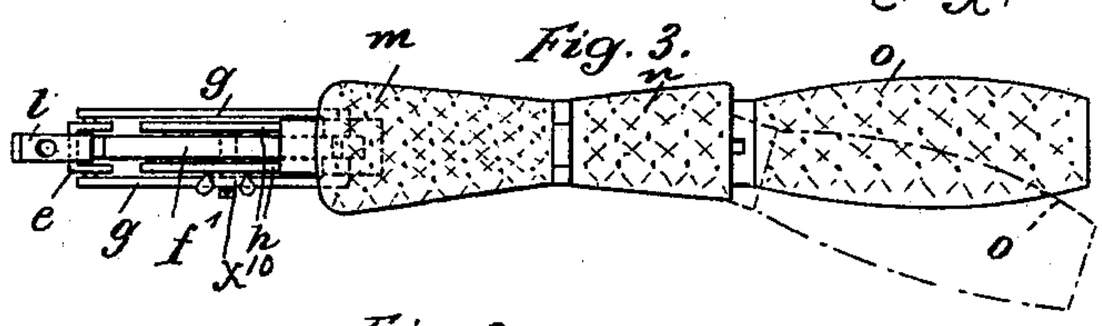
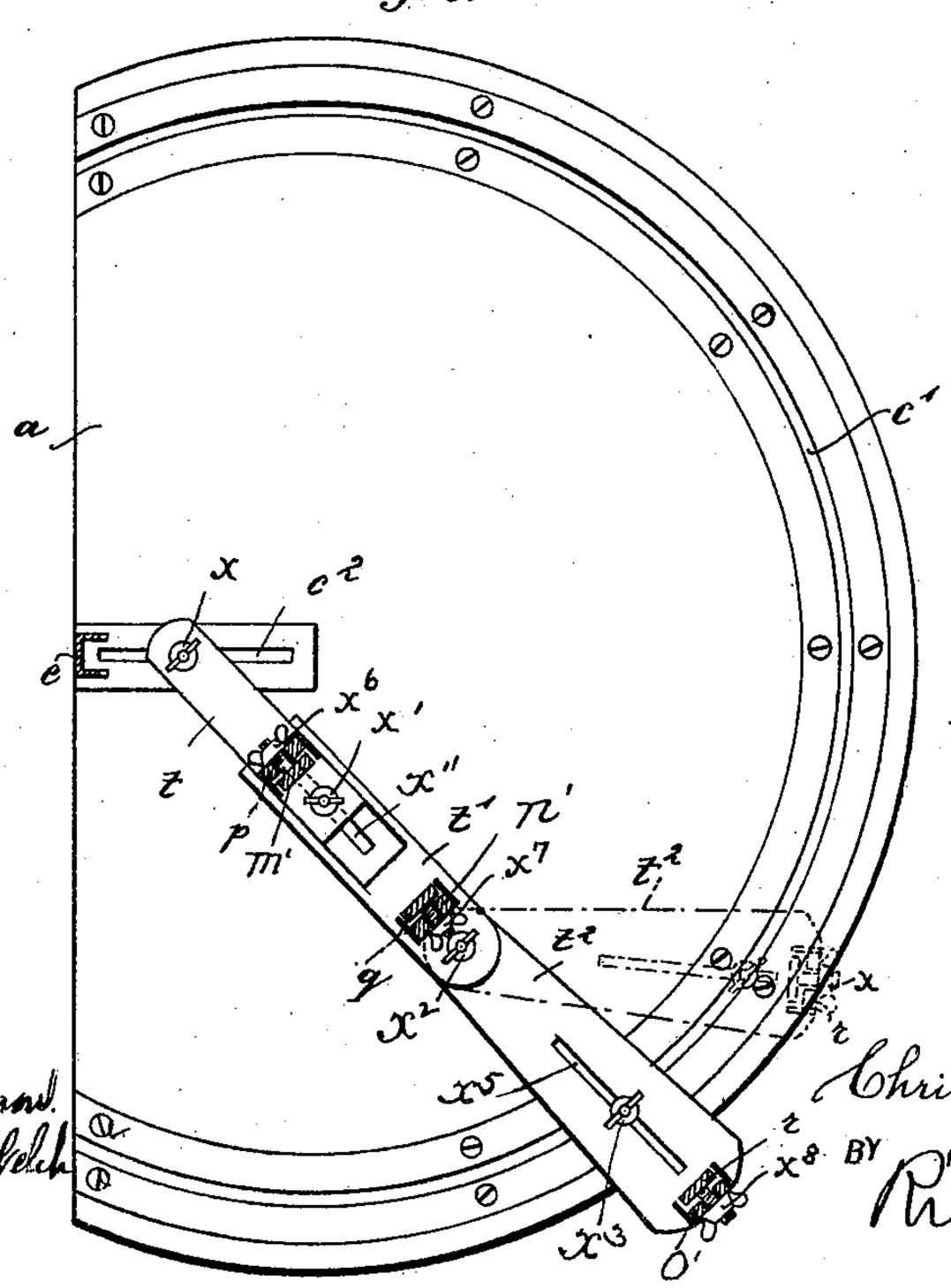



Fig. 2.

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# UNITED STATES PATENT OFFICE.

CHRISTINE ZIBULSKI, OF MUNICH, GERMANY.

## ADJUSTABLE ARM-REST.

SPECIFICATION forming part of Letters Patent No. 711,550, dated October 21, 1902.

Application filed March 16, 1900. Serial No. 9,002. (No model.)

*To all whom it may concern:*

Be it known that I, CHRISTINE ZIBULSKI, widow, *née* ARNOLD, a subject of the Emperor of Germany, residing at Munich, in the Kingdom of Bavaria, Germany, have invented certain new and useful Improvements in Adjustable Arm-Rests, of which the following is a full, clear, and exact description.

My invention relates to means whereby in operating upon or treating the arm of the human body a support may be furnished which is adjustable to suit all the different positions in which the physician may find it necessary to have the arm fixed; and my invention consists in the features and combinations of parts hereinafter fully described, and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 represents a vertical sectional view of the apparatus with parts in elevation. Fig. 2 is a plan view of a section on the line A B of Fig. 1. Fig. 3 is a detail plan view of a supporting-arm and attached devices. Fig. 4 is a detail view of the arm-rest. Fig. 5 is a detail view, partly in section, of a detail part of the mechanism. Fig. 6 is a front view, partly in section, of Fig. 5.

The apparatus is supported upon a plate $a$. At one end of this plate is located a vertically-channeled support $e$, the edges of which are toothed, as at $e^{\times}$ in Figs. 1 to 5. An arm $l$ is adapted to slide vertically in this guideway and may be supported at any desired height by a catch-lever $f$, having a pin to engage the teeth $e^{\times}$, said catch-lever being pressed normally into engagement with the teeth of the channeled bar by a spring $y$. The bar $l$ carries at its upper end a shoulder-rest $k$. The base-plate $a$ is provided with a curved channel $c'$, forming a segment of a circle, and it is also provided with a channel or slot $c^2$, radiating from the center from which the slot or channel $c'$ is struck. In the channel $c^2$ a clamping-bolt $x$ is adjustably arranged to hold an arm $t$ in different positions in relation to the vertical channel $e$. The arm $t$ is jointed by means of a bolt $x'$ to a section $t'$, with which it has a sliding connection. For this purpose the bolt $x'$ passes through a slot $x''$ in the part $t'$. The arm $t'$ in turn is jointed by means of a bolt $x^2$ to an arm $t^2$, so that said arm $t^2$ may have pivotal adjustment in relation to the arms $t$ and $t'$. The arm or section $t^2$ has a bolt $x^3$ passing through a slot thereof, the head of the same, $x^4$, as shown in Fig. 1, being arranged to bear against the under side of the overhanging flanges $c^{\times}$, forming the top of the channel or way $c'$.

By means of the slot $x^5$, through which the bolt $x^3$ passes, it will be seen that the arm $t^2$ can be adjusted, as shown in dotted lines in Fig. 2. Each of the sections $t\ t'\ t^2$ has an arm extending vertically therefrom, (marked, respectively, $p$, $q$, and $r$.) These arms are slotted, and through these slots bolts $x^6\ x^7\ x^8$ pass, said bolts being connected, respectively, with standards $m'\ n'\ o'$, extending down, respectively, from the sections $m$, $n$, and $o$ of the arm-rest. By means of the bolts $x^6\ x^7\ x^8$, which have suitable wing-nuts, the arm-rest may be adjusted vertically as desired. The section $n$ is hinged at $n^2$ to the section $m$ of the arm-rest, so as to have vertical adjustment, as shown in dotted lines in Fig. 1, and the section $o$ is pivoted at $x^9$ to the section $n$, so that it may be adjusted horizontally at an inclination to the sections $m$ and $n$, as shown in dotted lines in the plan view Fig. 3. To the under side of the section $m$ of the arm-rest arms $h$ are secured, extending toward the standard $e$, said arms being slotted for the passage of a clamping-bolt $x^{10}$. This bolt passes through the slot of an arm $f'$, secured to the support post or standard $l$ of the shoulder-bolster $k$. The lower end of this slotted arm is connected to a link $g$.

By means of the described joints and connections of the various parts it will be seen that the arm-rest may be adjusted to various positions to suit the requirements of the operations to be performed.

I claim as my invention—

Supporting means for the human arm comprising sections $m$, $n$ and $o$, adjustable supports $p$, $q$ and $r$ connected thereto, a base-plate having a circular and a straight slot therein, the arms or sections $t, t', t^2$, adjustably connected together and adjustably mounted in the said slots, the said supports $p$, $q$, $r$, being connected with the sections or arms $t, t', t^2$ and a bolster $k$ with means for supporting the same adjustably, substantially as described.

In witness whereof I subscribe my signature in presence of two witnesses.

CHRISTINE ZIBULSKI.

Witnesses:

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ANDREAS SORGDIENER.