No. 823,792. PATENTED JUNE 19, 1906.

S. KLINE.

HEAD REST.

APPLICATION FILED FEB. 25, 1905.

FIG. I.

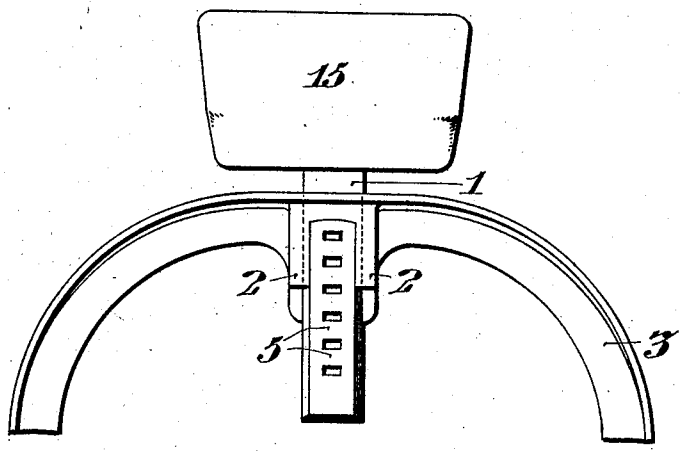


FIG. II.

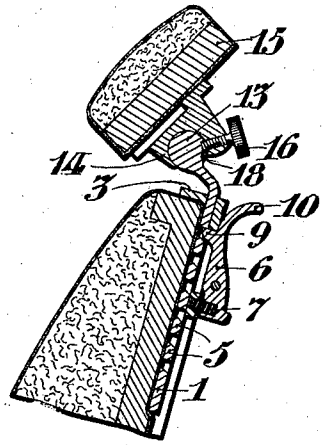
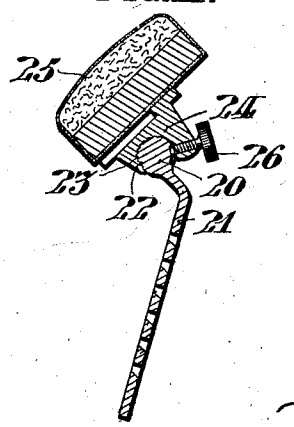


FIG. III.



WITNESSES:

Clifton C. Hallowell

John C. Bergner.

INVENTOR:

SAMUEL KLINE,

by Paige, Paul & Bailey

Attys.

UNITED STATES PATENT OFFICE.

SAMUEL KLINE, OF TRENTON, NEW JERSEY.

HEAD-REST.

No. 823,792. Specification of Letters Patent. Patented June 19, 1906.

Application filed February 25, 1905. Serial No. 247,213.

To all whom it may concern:

Be it known that I, SAMUEL KLINE, of Trenton, in the county of Mercer and State of New Jersey, have invented certain new and useful Improvements in Head-Rests, whereof the following is a specification, reference being had to the accompanying drawings.

My invention relates to adjustable head-rests which may be employed with particular advantage in connection with chairs designed for the use of a barber or dentist.

It is the object of my invention to provide a head-rest so constructed and arranged as to be readily adjustable without the employment of the long-handled bolts or nuts usual in head-rests of this class, with the advantage that there are no projections local to said head-rest to interfere with the operator.

As hereinafter described, my invention comprises a rack-bar arranged to be longitudinally adjusted in a chair-back and having a cylindriform bracket arranged to support a head-rest block having a socket fitted to said bracket, said bracket and socket being provided with complementary means to secure them in any desired position of adjustment. As hereinafter described, such means comprise a set-screw in the socket arranged to engage a peripheral groove in the bracket and complementary serrations on the socket and on the bracket arranged for interengagement.

My invention comprehends the various novel features of construction and arrangement herein set forth.

In the accompanying drawings, Figure I is a front view of a fragment of a chair-back supporting a head-rest embodying my invention. Fig. II is a central vertical sectional view of the parts shown in Fig. I and also showing the upper portion of the chair-back cushion. Fig. III is a central vertical sectional view of a modified form of my invention.

In said figures, 1 is the head-rest-supporting bar arranged to reciprocate in parallel guides 2, provided in the upper central portion of the chair-back frame 3. Said bar 1 is recessed to form a series of rack-teeth 5, arranged to engage the pawl 6, which is pressed therein by the spring 7 and has its tooth 9 so shaped that said rack-bar 1 may be raised without manipulation of the pawl. However, it being necessary to manually withdraw the pawl 6 when it is desired to lower the rack-bar 1 said pawl is provided with the projecting handle 10.

The upper part of the rack-bar 1 extends forwardly over the frame 3 and has its cylindriform bracket 13 fitted in the socket 14 of the head-rest block 15, so that the latter may be retained at any predetermined angle by the thumb-screw 16. Said screw 16 extends in the circumferential groove 18 in the bracket 13, so as to permit said head-rest block 15 to be oscillated without lateral movement when said screw is slightly retracted.

In the form of my invention shown in Fig. III the cylindriform bracket 20 of the rack-bar 21 is provided with the serrations 22, arranged to coöperate with the complementary serrations 23 in the socket 24 of the head-rest block 25. Said head-rest block 25 may be secured in any desired angular position relatively to the bar 21 by laterally removing the said block and replacing it with the serrations 22 and 23, engaged in the desired position, in which it may be retained against accidental lateral displacement by the set-screw 26. This form of my invention is advantageous in that it provides means to positively lock the head-rest block in any desired angular position without dependence upon the mere frictional engagement of the set-screw.

I do not desire to limit myself to the precise details of construction and arrangement herein shown and described, as it is obvious that various modifications may be made therein without departing from the essential features of my invention.

I claim—

1. The combination with opposed parallel guides; of a bar provided with a rack arranged to reciprocate between said guides, and carry a bracket with a cylindriform head provided with a peripheral groove; a spring-pressed pawl pivoted on said guides, arranged to retain said bar in adjusted position; a head-rest block having a socket fitted to said head; and, a set-screw carried by said block, arranged to engage the groove on said head, substantially as set forth.

2. The combination with opposed parallel guides; of a supporting-bar arranged to reciprocate between said guides and provided with a bracket with a cylindriform head having serrations extending parallel with its axis; means arranged to retain said bar in adjusted position; a head-rest block provided with a

socket having serrations fitted to the serrations on said head; and, means arranged to normally secure said head-rest block against lateral displacement with respect to said head, substantially as set forth.

3. In a head-rest, the combination with a bracket comprising a cylindriform head having a peripheral groove; of a head-rest block having a cylindriform socket fitted to said head in removable relation therewith; and, a set-screw carried by said block, arranged to engage the groove in said head and prevent the removal of said block, substantially as set forth.

4. In a head-rest, the combination with a bracket having a cylindriform head, comprising serrations extending parallel with its axis; of a head-rest block provided with a cylindriform socket having complementary serrations fitted to the serrations on said head, in removable relation therewith; and, a set-screw carried by said block arranged to engage said head and prevent the removal of said block, substantially as set forth.

5. The combination with opposed parallel guides; of a supporting-bar arranged to reciprocate between said guides; a bracket carried by said bar, and having a cylindriform head with its axis extending transversely with respect to said bar; means arranged to retain said bar in adjusted position between said guides; a head-rest block having a cylindriform socket fitted in removable relation on said head; and, means carried by said block arranged to engage said head and prevent the removal of said block, substantially as set forth.

6. The combination with opposed parallel guides; of a supporting-bar arranged to reciprocate between said guides; a bracket carried by said bar in rigid relation therewith, and having a cylindriform head with its axis extending transversely with respect to said bar; means arranged to retain said bar in adjusted position between said guides; a head-rest block having a cylindriform socket fitted in removable relation on said head; and, means carried by said block arranged to engage said head and prevent the removal of said block, substantially as set forth.

In witness whereof I have hereunto signed my name, at Trenton, in the State of New Jersey, this 7th day of February, 1905.

SAMUEL KLINE.

Witnesses:
CHAS. L. HARDING,
GIUSEPPE FRONELLA.