

E. E. KOKEN, DEC'D.
W. F. KOKEN, EXECUTOR.
SANITARY HEAD REST.
APPLICATION FILED APR. 30, 1910.

977,805.

Patented Dec. 6, 1910.

2 SHEETS—SHEET 1.

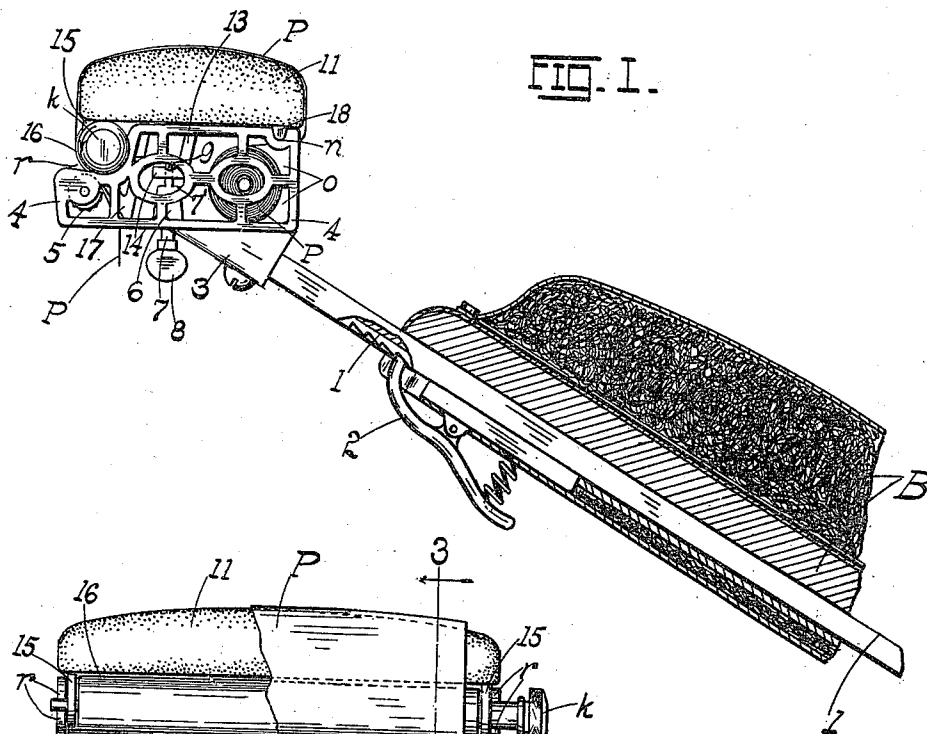


FIG. 1.

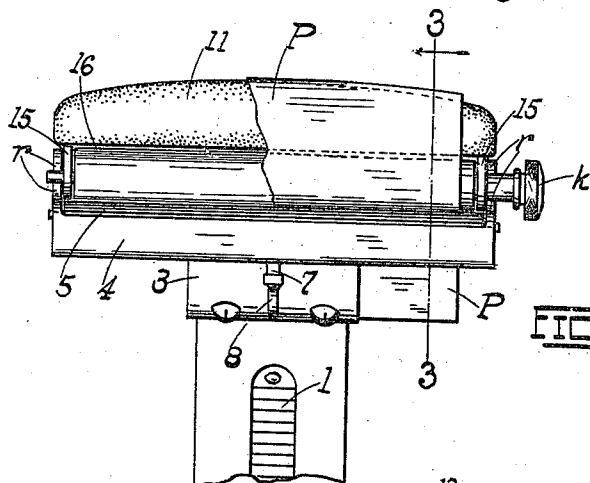


FIG. 2.

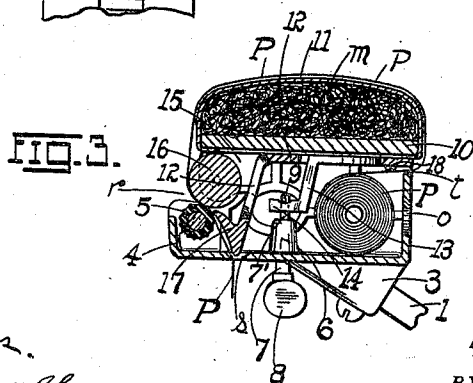


FIG. 3.

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2 SHEETS-SHEET 2.

FIG. 4.

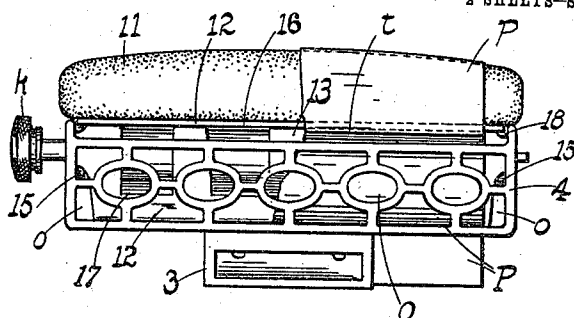


FIG. 5.

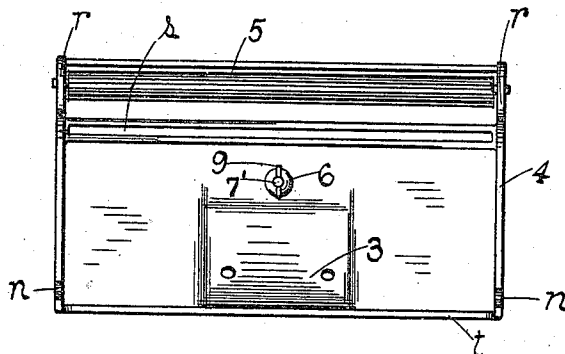


FIG. 6.

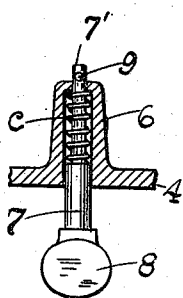
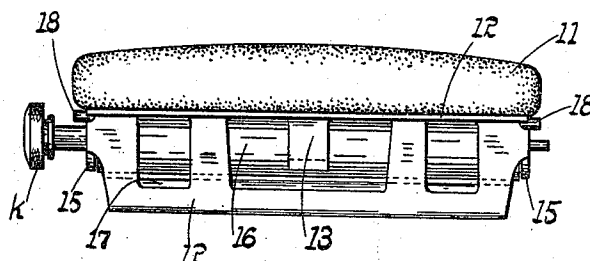
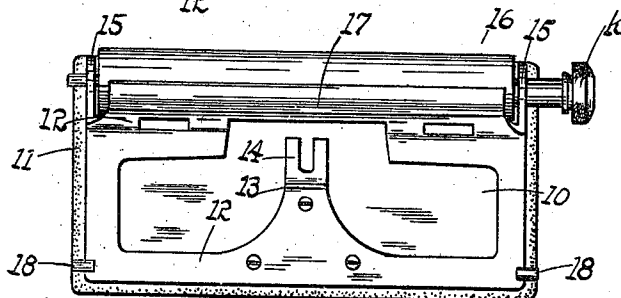


FIG. 8.

FIG. 7.



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UNITED STATES PATENT OFFICE.

ERNEST E. KOKEN, DECEASED, LATE OF ST. LOUIS, MISSOURI; WALTER F. KOKEN
EXECUTOR OF SAID ERNEST E. KOKEN.

SANITARY HEAD-REST.

977,805.

Specification of Letters Patent.

Patented Dec. 6, 1910.

Application filed April 30, 1910. Serial No. 558,690.

To all whom it may concern:

Be it known that ERNEST E. KOKEN, deceased, late a citizen of the United States, residing in St. Louis, State of Missouri, did invent certain new and useful Improvements in Sanitary Head-Rests, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

The invention has relation to improvements in head-rests; and it consists in the novel details of construction more fully set forth in the specification and pointed out in the claims.

In the drawings, Figure 1 is a side elevation of the head-rest with the upper portion of the barber's (or equivalent) chair to which it is applied, shown in section; Fig. 2 is a rear elevation of the rest, with the supporting rack-bar broken and showing the traveling sheet or paper web which supports the head of the occupant of the chair, partly torn away; Fig. 3 is a vertical transverse section of the assembled rest, on the line 3—3 of Fig. 2; Fig. 4 is a front elevation of the head-rest; Fig. 5 is a top plan of the lower or fixed section of the head-rest; Fig. 6 is a front elevation of the upper section of the rest, detached; Fig. 7 is a bottom plan of the same section, swung one hundred and eighty degrees to the right from Fig. 6; and Fig. 8 is a longitudinal sectional detail of the socket carrying the locking key, the latter being in elevation.

The present invention is an improvement on the sanitary head-rest forming the subject-matter of U. S. Letters Patent numbered 950,854, issued to me under date of March 1, 1910; and while contemplating the several objects and advantages of the patented structure, the improvement herein is simplified in several particulars notably, (1) those bearing on the feature of assembling the sections of the rest, (2) the feature of producing a yielding contact between the friction rollers or cylinders between which the sheet or web of paper or other fabric is advanced through and over the rest, (3) the feature of guiding the web out of the rest, and to other features which will be more specifically referred to in the detailed description of the invention. The present improvement in addition makes provision for the free circulation of air through the rest and between the sections thereof so as to keep the same cool at all

times, and thus contribute to the comfort of the person occupying the chair, of which the head-rest forms a part.

The advantages of the invention will be fully apparent from a detailed description thereof which is as follows:—

Referring to the drawings, B represents the back of a conventional barber's chair to which the head-rest is adjustably secured. This adjustment well understood in the art is illustrated in the present case in the form of a rack-bar or member 1 inserted into a socket in the back, the teeth of the bar being engaged by any suitable form of spring-controlled locking pawl 2 manipulated by the barber (or dentist), a depression of one arm of the pawl releasing the bar 1 and permitting its withdrawal or adjustment to any extent, whereupon by releasing the pawl, the latter locks the bar in its adjusted position. This feature however, is well understood in the art and has no bearing on the present invention.

The upper end of the rack-member 1 is secured in a socket 3 cast or formed with the bottom wall of the lower section 4 of the head-rest, the front and side walls of said section being made of open work, thereby leaving open spaces *o* for the free circulation of air between the two sections of the rest to be presently more fully described. The side walls of the lower section are extended somewhat beyond the front wall, and at points adjacent to the latter wall are provided with notches or depressions *n, n*, of a depth substantially equal to the distance said side walls are extended beyond the front wall. The rear ends of the side walls are cut away or removed so as to leave angular recesses *r, r*, for a purpose to presently appear. The rear wall is depressed slightly below the rear reduced portions of the side walls left below the recesses, this slight depression allowing for a corresponding exposure of the bottom soft corrugated feed or friction roller 5 mounted between said reduced side wall portions of said lower section of the rest. In the bottom of the lower section, and slightly forward of, the roller 5 is a longitudinal slot *s* for the free passage of the traveling sheet or web of paper forming the material on which the head of the occupant of the chair directly rests. Between the socket 3 and the slot *s*, there is formed on the inner face of the

bottom wall of the lower section a hollow boss or socket 6 through which is inserted a rotatable key 7 terminating on the outside in a flat finger-hold or head 8, and on the inside in a reduced stem 7' provided with a terminal cross pin 9. The pin 9 is preferably driven at right angles to the plane of the head, to serve as a guide to the operator in determining how he shall turn the key to secure a hold on the upper and removable section of the rest and lock the same to the lower section. Confined in the socket 6 and bearing with its opposite ends against the terminal socket wall and the shoulder formed on the key shank at the base of the stem 7' is a compression spring *c* coiled about the stem 7' and normally tending to force the key outward, or, what amounts to the same thing, to draw the stem 7' thereof into the socket.

The upper and detachable or removable section of the head-rest is composed of a plate 10 over which is drawn the leather 11 which protects on one side the inner soft filling or cushioning material *m*. To the plate 10 is secured (by screws or otherwise) an angle-piece or casting 12 with sections removed to make the same as light as possible, the leg of the casting immediately resting on the plate 10 being provided with a depending arm 13 which terminates in a rearwardly deflected fork 14, the members of which are sufficiently spaced apart to allow for the free passage between them of the stem 7' of the key, the cross pin 9 passing freely between said fork members when turned into parallelism therewith, but spanning the same when turned at right angles to said fork members, and hence serving to lock the two head-rest sections together. Formed on the outside or rearward of, the opposite terminals of the short or vertical leg of the angle-piece, are ears or lobes 15 in which are mounted the spindles of the driving crowned feed-roller 16 which engages the roller 5 on the lower head-rest section, the frictional engagement and the necessary tension between the rollers being maintained by the compression spring *c* confined in the socket 6, and acting directly on the key 7 by which the two sections of the rest are locked together. The roller 16 is manipulated by a milled head *k* on one of the spindles thereof, the same as in the patented head-rest aforesaid. At the free edge of the vertical leg of the angle-piece 12, and exterior thereto and rearward thereof is formed a concaved guide-apron or deflector 17 which when the head-rest sections are assembled, drops into proximity and forward of, the roller 5, the free edge of the apron coming approximately centrally over the slot *s* in the lower section and the lobes 15 dropping between the side walls of the lower section of the head-rest above the angular re-

cesses *r*, across which the spindles of the roller 16 are free to project. The opposite ends of the horizontal leg of the angle-piece are provided at their forward edges with lugs or trunnions 18 which engage the notches *n, n*, of the lower section of the head-rest; and when in position, a slot *t* is left between the angle piece and the upper edge of the front wall of the lower section to allow for the free passage of the sheet or web *P* therethrough.

The operation of the improved head-rest may be described as follows:—A roll of sheet-paper *P* is placed in the lower section between the socket 6 and the front wall of said section and the end passed over the upper edge of said front wall. Thereupon the upper section is placed with its lugs or trunnions 18 in the notches *n, n*, and dropped down on the lower section until the rollers 5 and 16 are in contact. This brings the forked end 14 of the arm 13 of the upper section directly over the stem 7' of the lock 7. By first turning the key-shank so as to bring the cross-pin 9 parallel to the fork members, the key is pushed inwardly until the cross-pin has been forced beyond the fork members, after which the key is given a turn of ninety degrees which brings the cross-pin at right angles to the fork members and to the slot between said members, the pin upon release of the key automatically engaging and spanning the fork members (under the resilient action of the spring *c*) and yieldingly locking the upper to the lower section of the head-rest. The end of the sheet or web hanging over the front wall of the lower section, and protruding from the slot *t* formed by the assembling of the sections is now passed over the upper section of the head-rest and its edge presented to the rollers 5, 16. By giving the upper or feed roller 16 a turn in proper direction (manipulating it by seizing the milled head *k* on one of the spindles thereof) the sheet may be advanced until it partially projects out of the slot *s*. After the customer leaves the chair, the sheet may be advanced by the driving roller through a section corresponding in extent to what is necessary to cover the upholstered portion or rest of the head rest, a length of paper corresponding to such section being torn off by tearing the same along the rear edge of the slot *s*.

It will be seen that when the sections of the rest are assembled, the arm 13 and socket 6 jointly form a post which divides the chamber formed between the sections into two communicating compartments, the roll of paper *P* being confined to the front compartment and in no wise interfering with the rollers 5, 16. In the present improvement the two head-rest sections are yieldingly connected or locked together, so that the rollers 5, 16 may be mounted in rigid bearings, the

contact between the rollers being a yielding one nevertheless, owing to the resilience of the spring *c* controlling the key by which the sections are yieldingly locked. The lugs 18 take the place of hinges, but have the advantage in that they permit the complete removal or detaching of the upper section, when a fresh roll of paper is placed in the lower section. This removal of the upper section permits the web from the roll to be passed over the front wall of the lower section before the upper section is restored to its position on the lower section, when the slot *t* is finally formed. When the sections are assembled, the open character of the walls of the lower section allows for free circulation of air between the sections, and under the rest supporting the head of the occupant of the chair, so that the highest degree of comfort is assured. The head-rest is eminently sanitary as each customer places his head on a fresh section of the sheet or web of paper (or other material) pulled off from the roll *P*. The yielding connection between the sections, while sufficient to maintain the feed-rollers 16 and 5 in proper contact with the web coming from the roll *P*, allows the web the necessary freedom to be advanced by the rollers.

Having described the invention, what I claim is:—

1. A head-rest comprising a lower relatively fixed section, an upper detachable section mounted thereon and forming a chamber between the sections, a spring-controlled combined rotatable and reciprocating key mounted on the lower section, a cross-pin at the inner free end of the key, a forked member on the upper section adapted to be engaged by said cross-pin whereby the sections become locked together, the locking members dividing the chamber into two compartments.

2. A chambered head-rest comprising a relatively fixed lower section provided with a bottom having a rear longitudinal slot, front and side walls, the latter being extended above the front wall and provided with front upper depressions of a depth substantially equal to said extension, and with rear upper cut-away portions or recesses, an upper detachable section provided with front lugs engaging said depressions, and spacing the section from the front wall of the lower section, and having rear lobes between the planes of the side walls of the lower section, a feed roller mounted between the lobes and

having operating spindles extending across the recesses, a friction roller on the lower section engaging the feed-roller, an apron on the upper section positioned in proximity to and forward of said friction roller for an assembled position of the sections, and means on the respective sections for maintaining a yielding connection between them and between the rollers.

3. A chambered head-rest comprising a lower fixed section having a bottom, front and side walls, a spring-controlled rotatable key having a longitudinal movement, and inner terminal cross-pin on said key, an upper detachable section, an angle-piece having one leg secured to the inner face of the upper section, an arm on said leg terminating in a deflected fork adapted to cooperate with the key and cross-pin thereof, an apron formed with and rearward of, the second leg of the angle-piece, lobes extending rearwardly from the base of the second leg, a roller mounted between the lobes, and a cooperating roller mounted above the rear of the bottom of the lower section, said bottom being provided with a slot slightly forward of, and parallel to, the last named roller, and means for spacing apart the front of the upper section from the upper edge of the front wall of the lower section.

4. A chambered head-rest comprising a relatively fixed lower section and a detachable upper section, means for yieldingly locking the detachable section to the fixed section, said locking means extending across the chamber from section to section and forming a compartment for holding a roll of sheet material, the sections being spaced apart in front by an elongated slot through which the sheet may be initially passed rearward over the upper section, a pair of rear feed rollers mounted in the rear of the respective sections on opposite sides of the line of separation of the sections, the lower section being provided with an outlet slot for the withdrawal of the sheet from between the feed-rollers, and means for guiding the sheet to said outlet slot.

In testimony whereof, I affix my signature in presence of two witnesses.

WALTER F. KOKEN,
Executor of the estate of Ernest E. Koken,
deceased.

Witnesses:

EMIL STAREK,
ALONZO W. POWELL.