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H. A. KAISER

2,088,207

HEADREST

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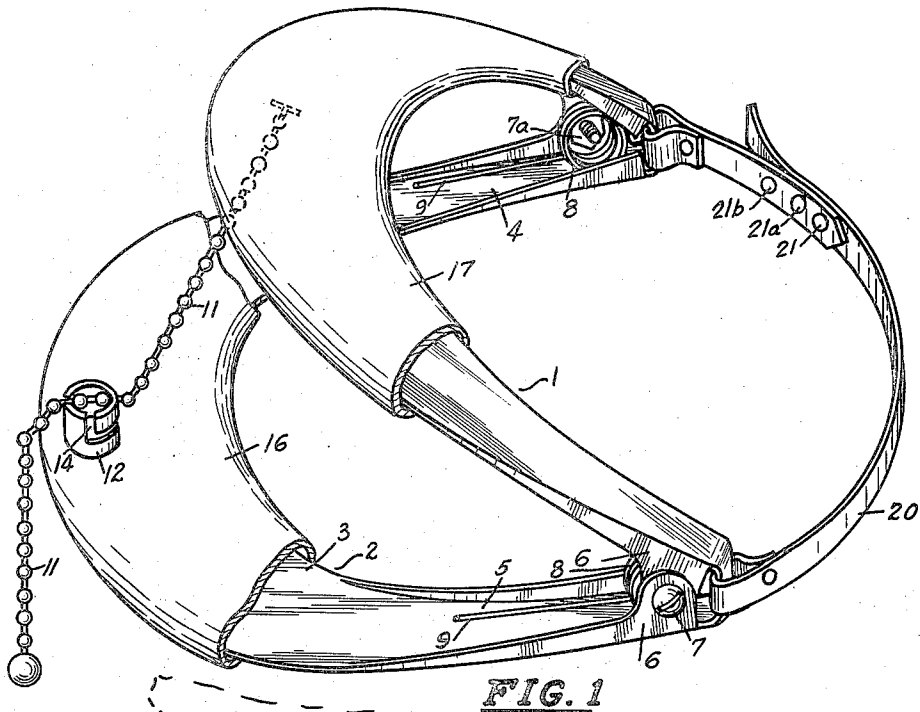


FIG. 1

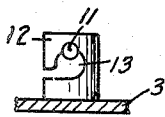


FIG. 2

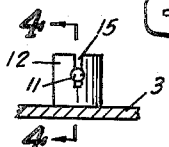


FIG. 3

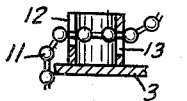


FIG. 4

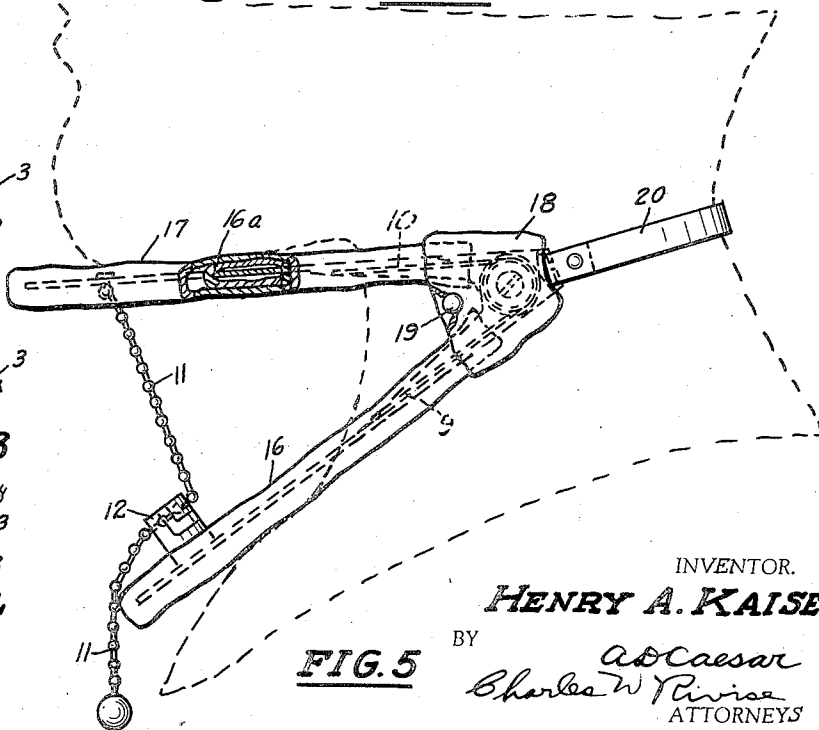


FIG. 5

INVENTOR.

HENRY A. KAISER

BY

A. Caesar
Charles W. Rivise
ATTORNEYS

UNITED STATES PATENT OFFICE

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HEADREST

Henry Arnold Kaiser, Ronan, Mont., assignor of one-third to Leo Kaiser, Ronan, Mont., and one-third to George R. Shepard, Missoula, Mont.

Application July 9, 1935, Serial No. 30,510

2 Claims. (Cl. 155—175)

This invention relates to head rests of the type intended to promote the comfort of passengers on trains, buses and other vehicles though it is to be understood that the device can be used for other purposes such as insuring proper breathing during sleep.

The primary object of the present invention is to provide a device of the foregoing type which is simple in construction, inexpensive to manufacture, exceedingly easy to apply and adjust to the individual requirements of the user and to the particular circumstances of its use, and which will not cause any discomfort to the user or unduly interfere with his freedom of movement.

In its broadest aspects the illustrative embodiment of the invention consists of a light frame of two parts disposed at an angle to each other, the device being adapted to be worn about the neck in the angle between the chin and the chest so that one part rests about the upper portion of the wearer's chest and the other part presses upwardly against the chin and keeps the head erect.

Referring briefly to the drawing in which is shown a preferred embodiment of the invention, Figure 1 is a perspective view of the device, part of the covering being broken away to expose otherwise hidden parts;

Figure 2 is a rear elevation of the means for securing the two principal elements of the device in any desired adjusted position;

Figure 3 is a front elevation of the same element;

Figure 4 is a cross-section taken on line 4—4 of Figure 3 looking in the direction of the arrows; and

Figure 5 is a side view of the device showing its manner of application, the lower portion of the wearer's head and adjacent parts of his body being indicated generally by short dash lines.

Referring to the drawing in greater detail and particularly to Figures 1 and 5 thereof, it will be noted that the device consists essentially of the two semi-annular members 1 and 2. Each of these elements, which are of substantially similar construction and which may advantageously be fashioned out of light material or metal such as aluminum, has a wide flat central portion 3 which tapers into the two narrower end portions 4 and 5. The end portions are preferably U-shaped in vertical cross-section, the sides of the U tapering down toward the central flat portion. One side of the U is fash-

ioned into the ear or lug 6, there being an ear or lug for each end of each member 1 and 2. The two members are pivotally connected together by means of screws 7 which pass through aligned apertures in the ears 6. The numeral 7a designates a nut which is received on the threaded end of the screw.

Wound loosely about the screw 7 and bolt 7a at each pivotal connection between the members 1 and 2 is a spring 8 having a coiled central portion and two free ends 9 and 10. The free ends 9 and 10 press against the floors of the U-shaped ends of the members 1 and 2, thus forcing the members apart.

The angle between the two members may be adjusted to suit individual requirements and the members may be maintained in adjusted position by means of the chain 11 and the locking element 12. The chain 11 is permanently secured in any desired manner to the upper member 1 and the locking element is permanently secured to the lower member 2. The chain is provided with a large number of substantially spherical links, which links cooperate with the locking element 12 as will now be described.

The locking element 12 is in the form of a short cylindrical tube open at its upper end and provided with the three slots 13, 14, and 15. The slot 13 is substantially circular in shape and communicates with the slot 14 which is positioned to one side of the slot 13. The slot 15 is disposed substantially diametrically opposite to the slot 13. Both slots 14 and 15 are vertical and are open at their upper ends. As shown in Figures 1 and 4 the chain 11 passes through the slots 13 and 15, the slot 14 serving to facilitate threading the chain through the slot 13. Normally the chain is in taut condition, a portion of the chain between two of its links pressing tightly against the upper end of the slot 13 and a portion of the chain between two other links being tightly clamped by the slot 15. By raising the chain out of the slot 15 and pressing the two members 1 and 2 toward each other against the tension of the springs 8, the chain is released from the locking element and it is then possible to adjust the two members 1 and 2 to other relative positions. When the desired positions are obtained, the chain may be locked by simply forcing a portion of the chain between two links into the slot 15.

To conceal the metallic elements and to render the device thoroughly sanitary, covers 16 and 17 may be provided for the members 1 and 2. An additional cover 18 may be provided for each

of the pivoted ends. Cover 18 is an envelop of generally frusto-conical shape passed over each pair of pivoted ends of the semi-circular members. Each cover has at its inner end the mating elements of a single snap fastener 19 to secure opposite inner portions of the envelop together. Thus, it is possible to change the covers each time the device is used. If thought necessary or desirable, padding such as indicated by 16a may be provided.

A strap 20 may be provided to secure the device about the neck of the wearer. The strap may be provided with the snap fasteners 21, 21a and 21b so that the strap may be adjusted for necks of different sizes.

From the foregoing description, the manner of application of the device to the body, its adjustment and the manner in which the various parts cooperate in keeping erect the head of the wearer without impairing his comfort or interfering with his bodily movements is thought to be obvious and no extended explanation of its operation is considered necessary. Suffice it to state that the structure and arrangement of the elements of the device enable the device to be positioned securely in the angle between the chin and the chest, the lower member 2 being supported lightly and without undue pressure about the upper portion of the chest below the neck, and the upper member 1 pressing lightly and with yieldable pressure upwardly against the lower jaw bone,

thus preventing the head of the wearer from involuntarily falling upon his chest.

The foregoing description and specification include the essential and distinctive thought of my invention, but it is to be distinctly understood that the same may be modified in various ways and/or combined with various other details without affecting the peculiar results obtained and without departing from the spirit of the invention or the scope of the appended claims, in which I intend to claim all the patentable novelty inherent in my invention.

I claim:

1. As a sub-combination of a head rest of the type intended to promote the comfort of passengers on trains, etc., consisting of a light frame of two semi-annular members pivoted together at their outer ends, spring means for maintaining the body portions of the two members in spaced relation, and means for adjusting the angle between the two members.

2. As an article of manufacture, a head rest of the type intended to promote the comfort of wearers on trains, etc., consisting of a light frame of two semi-circular members pivoted together at their ends, spring means for maintaining the body portions of the two members in spaced relation, means for adjusting the angle between the two members, and a strap attached to said frame to secure said frame about the neck of the wearer.

HENRY ARNOLD KAISER.