Oct. 30, 1962 S. GRASSL 3,060,930

NECK SUPPORTING DEVICE

Filed Dec. 14, 1959

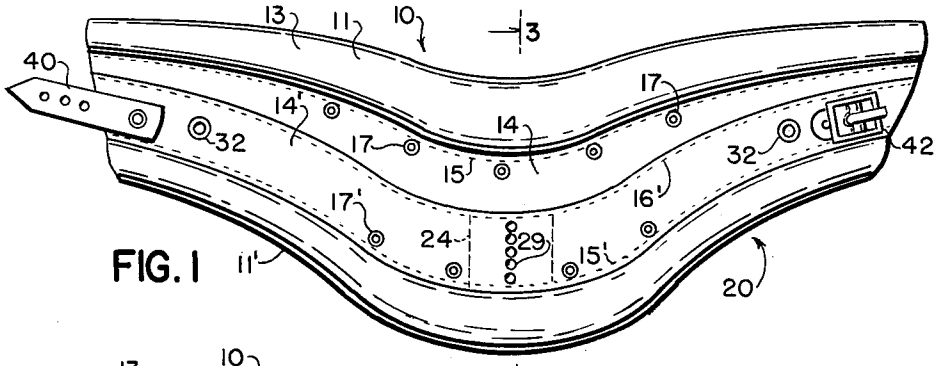


FIG. 1

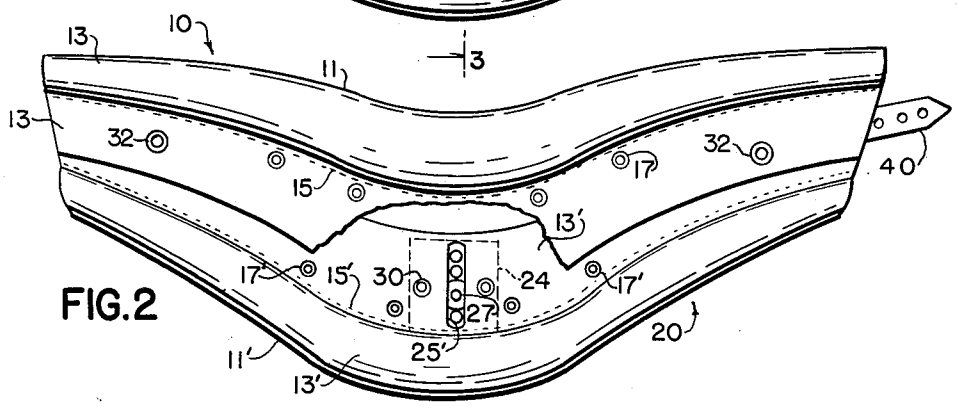


FIG. 2

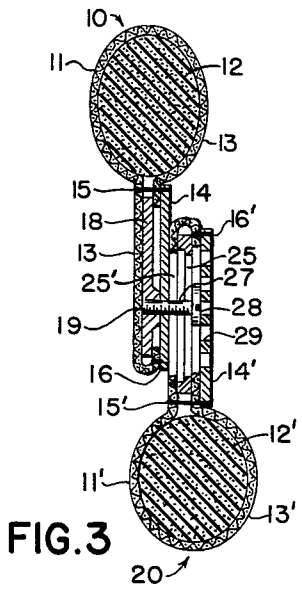


FIG. 3

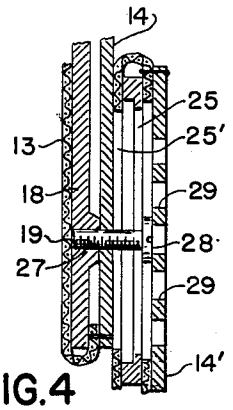


FIG. 4

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NECK SUPPORTING DEVICE

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This invention relates in general to neck supporters and, more particularly, to adjustable neck supporters.

An object of this invention is to provide a neck support that may easily be adjusted to give a desired amount of support to the neck of a person.

Another object of this invention is to provide a neck support which may be adjusted to fit a number of persons of different sizes.

Many other objects, advantages, and features of invention reside in the particular construction, combination and arrangement of parts involved in the embodiment of the invention and its practice as will be understood from the following description and accompanying drawing wherein:

FIGURE 1 is a front view of the neck support;

FIGURE 2 is a back view of the neck support;

FIGURE 3 is a section taken on line 3—3 of FIGURE 1; and

FIGURE 4 is an enlarged detail of the section of FIGURE 3.

Referring to the drawing in detail, the numeral **10** indicates an upper section of the neck supporter. This upper section **10** has a roll-shaped member **11** which is made from foam rubber **12** encased in a fabric cover **13**. Directly beneath the roll **11** the fabric cover **13** is secured by stitches **15** to the top edge of a stiff and flexible leather strip **14**. The lower back portion of the fabric cover **13** extends downward along the rear surface of the strip **14** and it is stitched to the lower edge of the strip **14** by the stitches **16**.

A number of eyelets **17** extend through the fabric cover **13** and the strip **14** to serve as air vents. As shown in FIGURE 3, a small metal plate **18** is fixed between the fabric **13** and the center portion of the back surface of strip **14**. The plate **18** contains a threaded socket **19** into which the screw **27** is turned. The strip **14** contains a single aperture aligned with the threaded socket **19** so that the screw **27** may pass through the strip **14** and enter the socket **19**.

A lower section of the neck supporter is generally designated by the numeral **20**. The large eyelets **32** extend through the upper and lower sections of the neck supporter to pivotally fasten them together. The lower section **20** consists of a roll-shaped member **11'** which is made from the foam rubber **12'** covered with the fabric covering **13'**. The fabric covering **13'** is stitched together and to a stiff flexible leather strip **14'** by the stitches **15'**. Thus the stitches **15'** fix the lower edge of the strip **14'** above the roll **11'**. The fabric covering **13'** extends upward behind the strip **14'** and it is secured to its upper edge by the stitches **16'**.

The lower section **20** has a metal plate **24** fixed behind the center of the strip **14'**. As shown in FIGURE 2, the metal plate **24** may be held in place by means of the eyelets **30** which secure the plate **24** to the fabric covering **13'**. The metal plate **24** contains an oblong slit or opening **25** and the covering **13'** contains a similar opening **25'**. A screw **27** extends through the opening **25** and the opening **25'** to be turned into the threaded socket **19**. The head **28** of the screw **27** lies between the plate **24** and the strip **14'**. The strip **14'** contains a number of vertically aligned openings **29** placed over the opening **25** in the plate **24**. A conventional slot in the screw head **28** enables the screw **27** to be tightened through an aperture **29** to lock the sections **10** and **20** in a given position.

Additional eyelets **17'** extend through strip **14'** and the fabric covering **13'** for ventilation. A strap **40** and a buckle **42** are fixed to the ends of the strip **14'** so that the neck support may be tightly secured about the neck of a user. The center portions of the sections **10** and **20** may then be moved relative to each other to a desired height and then locked in place by means of tightening the screw **27**.

While this invention has been shown and described in the best form known, it will nevertheless be understood that this is purely exemplary and that modifications may be made in the construction, arrangement and combination of parts and the substitution of equivalents mechanically and otherwise, without departing from the spirit of the invention except as it may be more limited in the appended claim wherein I claim:

A neck support comprising, in combination, an upper roll of soft material, an upper strip of stiff flexible material beneath said upper roll, an upper covering of fabric extending over and encasing said upper roll, said upper covering being fixed to said upper strip securing said upper roll above said upper strip, a lower roll of soft material, a lower strip of stiff flexible materal above said lower roll, a lower covering of fabric extending under and encasing said lower roll, said lower covering being fixed to said lower strip securing said lower roll below said lower strip, said upper and lower strips having end portions, means pivotally securing the end portions of said upper strip behind the end portions of said lower strip, a first plate containing a threaded socket, said first plate being fixed to the center of and behind said upper strip, said upper strip containing an aperture aligned with the threaded socket, a second plate containing a vertical slot, said second plate being fixed to the center of and behind said lower strip, and a screw extending through the slot in said second plate engaging the threaded socket in said first plate to adjustably secure said plates and thereby the center portions of said upper and lower strips, said screw having a head disposed between said second plate and said lower strip, said lower strip containing a number of vertically aligned apertures disposed over the slot in said second plate, said vertically aligned apertures being smaller than the head of said screw.

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