

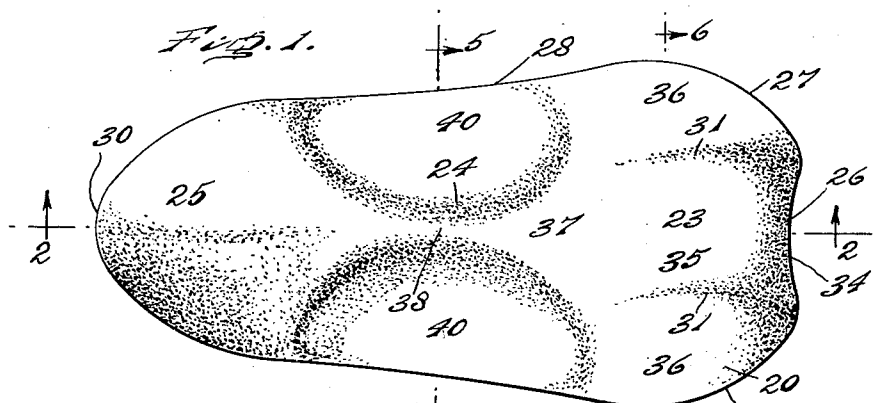
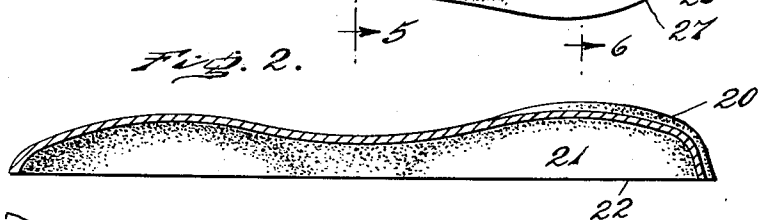
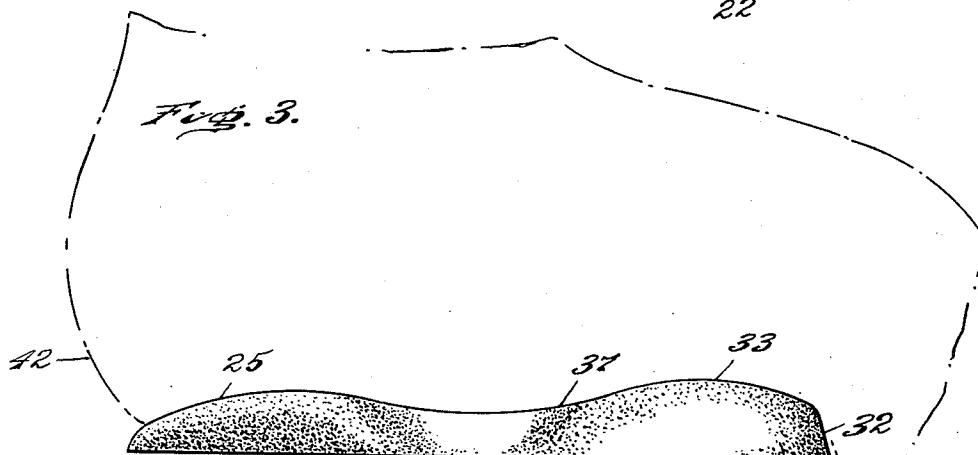
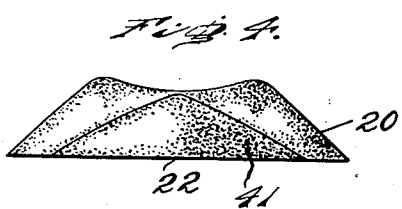
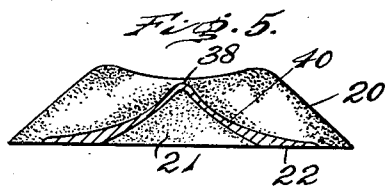
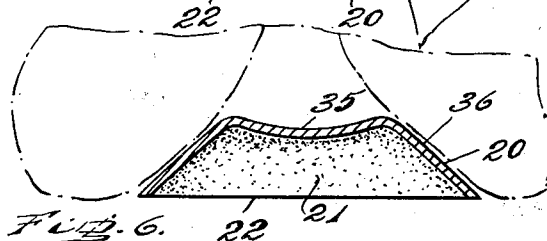
Nov. 6, 1956

W. F. BIEDERMAN

2,769,185

MUSCULAR SUPPORT

Filed May 11, 1953



INVENTOR
William F. Biederman.

BY *W. F. Biederman*
ATTORNEYS.

1

2,769,185

MUSCULAR SUPPORT

William F. Biederman, Philadelphia, Pa.

Application May 11, 1953, Serial No. 354,249

2 Claims. (Cl. 5—338)

The present invention relates to a support for the muscular structure of the human body, particularly in sitting position, especially at the crotch and primarily intended for use by male humans.

A purpose of the invention is to provide muscular support of the normal sitting parts of human beings in the crotch against fatigue, discomfort and muscular aches and pains, particularly during extended periods of sitting, especially in travel, and during attendance at meetings and the like.

A further purpose is to provide support especially for the anus and the prostate gland.

A further purpose is to provide a relatively wide and high dome-like structure at the front, a relatively narrow ridge at the center and a still narrower curved nose at the back.

A further purpose is to provide two spaced saddles first rising abruptly upwardly, and then gradually upwardly curving on the dome, with a slightly recessed abruptly upwardly curving portion between the saddles joining a slightly recessed plateau at the top, with convexly abruptly descending portions on both sides of the saddles.

A further purpose is to run the saddles together at the middle to form a central ridge which is curved at the top and concavely depressed on both sides, the concavely depressed portions joining the convexly descending portions of the dome at the rear and the convexly descending portions of the nose at the front.

Further purposes appear in the specification and in the claims.

In the drawings I have chosen to illustrate one only of the numerous embodiments in which my invention may appear, selecting the forms shown from the standpoints of convenience in illustration, satisfactory operation and clear demonstration of the principles involved.

Figure 1 is a top plan view of the muscular support of the invention.

Figure 2 is a central vertical longitudinal section on the line 2—2 of Figure 1.

Figure 3 is a side elevation showing a portion of the human body in phantom.

Figure 4 is a front elevation.

Figures 5 and 6 are transverse sections respectively on the lines 5—5 and 6—6 of Figure 1.

Describing in illustration but not in limitation and referring to the drawings:

Many persons become fatigued after extended periods of sitting, especially on long rides in vehicles, and after long periods of sitting at lectures, meetings and the like. This is due in part to inadequate support of the structure at the middle and rear of the crotch in the sitting position, and is likely to cause discomfort and fatigue.

The present invention is designed to provide support in the crotch, especially for men.

Referring to the drawings, the device of the invention is suitably an integral metallic support 20 which can conveniently be a sheet metal stamping or light metal alloy

2

casting, which has a hollow portion 21 underneath to reduce the weight, and around the periphery has a flat base 22 adapted to rest on a chair or the like.

The device is generally triangular in top plan view, and consists of a relatively wide and high dome portion 23 toward the front, an intermediate ridge portion 24 and a nose portion 25 toward the rear of the body. Considering the outer contour of Figure 1, the dome portion comprises a central recess 26 at the large end, filleted side portions 27 extending out to a maximum width in the section of Figure 6, converging to slightly inwardly curving longitudinal side portions 28 and to a curved nose 30 toward the rear of generally convex form merging with the side portions 28.

The forward dome portion comprises two saddles 31 which extend from the opposite ends of the recessed portion 26, first extending up abruptly at 32 and then gradually curving across at 33 to form the highest area of the structure. In between the two saddles 31 there is an abruptly upwardly rising slightly recessed portion 34 at the end and then a relatively flat slightly recessed plateau portion 35. On both sides the saddles descend in convex curves 36. The saddles join at 37 terminating the plateau 35, at a point below the saddle peak as shown in Figure 3 and create a ridge 38 which is curved at the top in cross section in Figure 5 and on either side has concave descending depressed portions 40 which rise at the end to join the convex curves of the sides of the dome and nose respectively.

The nose 25 is desirably a continuous slightly convex curve 41 extending all around.

In the preferred embodiment the support is desirably of about eight inches length and about four inches maximum width, although it will be understood that smaller and larger sizes may be produced to meet variations in personal dimensions. In use the device is placed under the crotch in the sitting posture as shown in Figure 3, where the user faces to the right and the portion 42 of the body immediately adjoining the crotch is supported on the muscular support, the portion of the body near the front resting on the dome 33, the intermediate portion on the ridge 24 and the rearward portion resting on the nose 25.

It is accordingly possible to endure extended periods of sitting with reduced discomfort even when vehicle motion is present.

In view of my invention and disclosure variations and modifications to meet individual whim or particular need will doubtless become evident to others skilled in the art, to obtain all or part of the benefits of my invention without copying the structure shown, and I, therefore, claim all such insofar as they fall within the reasonable spirit and scope of my invention.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. A rigid muscular support having a base, a relatively wide and high dome at one end, a relatively narrow ridge extending longitudinally in the middle and a nose portion descending in a curve rearwardly and at the two sides, the dome comprising a mid-portion which extends abruptly upwardly at the end remote from the nose portion, the mid-portion then rising gradually from the front in two saddles and the mid-portion having a depressed portion in between the saddles, and the dome sloping off abruptly transversely at the sides on both sides of the saddles in convex curves, the ridge portion being convexly curved at the top, lower than the dome and descending on both sides in concave curve portions, the ridge portions rising at the sides to the nose portion.

2. A rigid muscular support having a length of approximately eight inches and a maximum width of approximately four inches, wide and high at one end and

3

narrow toward the other end, having a flat base, having at the wide end a dome, there being saddles which abruptly upwardly slope from the one end and converge on the dome, there being between the saddles a plateau portion which is slightly depressed, the dome sloping off abruptly transversely in convex curves at both sides of the saddles, the saddles converging into a ridge near the middle and the ridge extending forwardly of the middle toward the small end and then curving off forwardly and at the two sides in a convexly curved nose, the ridge be-

4

ing convexly curved at the top and concavely curving off on both sides of the ridge, the concave curved off portions on both sides of the ridge curving up to the convex curved portions at the dome and at the nose.

References Cited in the file of this patent

FOREIGN PATENTS

253,767	Germany	Nov. 15, 1912
908,451	France	Sept. 17, 1945