Claims

WHAT IS CLAIMED IS:

1. A layered cushion (100, 200, 300) comprising:

a fluid permeable foam layer (102, 202, 302);

a void cell layer (104, 204, 304) which is fluid permeable;

a separation layer (126, 226, 326) configured to be oriented between the foam layer (102, 202, 302) and the void cell layer (104, 204, 304); and

a cover (108, 208, 308) configured to envelop the foam layer and the void cell layer, wherein the cover constrains the foam layer and the void cell layer in a selected position and orientation when enveloping the foam layer and the void cell layer, and wherein the foam layer, the void cell layer, and the cover are removable from one another.

2. The layered cushion (100, 200, 300) of claim 1, further comprising:

a rigid layer (106, 306) configured to be oriented adjacent the void cell layer (104, 204, 304), wherein

the cover (108, 208, 308) is further configured to envelop the rigid layer;

the cover further constrains the rigid layer in a selected position and orientation when enveloping the foam layer, the void cell layer, and the rigid layer; and

the rigid layer is removable from the foam layer, the void cell layer, and the cover.

3. The layered cushion (100, 200, 300) of claim 1 or 2, wherein the separation layer adjoins the cover.

4. The layered cushion (100, 200, 300) of any preceding claim [[~~1~~]], wherein ~~the foam layer, the void cell layer, and~~ the cover ~~are~~ is fluid permeable.

~~5. The layered cushion of claim 1, wherein at least one void cell in the void cell layer includes a drainage hole.~~

~~6.~~5 The layered cushion (100, 200, 300) of any preceding claim [[~~1~~]], wherein the foam layer substantially collapses at a lower pressure than the void cell layer.

~~7~~6. The layered cushion (100, 200, 300) of any preceding claim [[~~1~~]], wherein a combination of the foam layer and the void cell layer provides a substantially monotonic pressure-deflection curve.

~~8~~7. The layered cushion (100, 200, 300) of any preceding claim [[~~1~~]], wherein the void cell layer (104, 204, 304) includes four or more void cells arranged in a matrix.

~~9~~8. The layered cushion (100, 200, 300) of any preceding claim [[~~1~~]], wherein the void cell layer (104, 204, 304) includes two layers of void cells in an opposing or interdigitated arrangement.

~~10~~9. The layered cushion (100, 200, 300) of claim 1, wherein the cover includes one or more selectively detachable fasteners oriented along at least one side of the cover.

~~11~~10. A method of assembling a layered cushion (100, 200, 300) comprising:

positioning a fluid permeable foam layer adjacent a first surface of a separation layer and within a cover;

positioning a void cell layer adjacent a second surface of the separation layer and within the cover, wherein the void cell layer is fluid permeable; and

closing the cover to envelop the foam layer and the void cell layer, wherein the foam layer, the void cell layer, and the cover are removable from one another.

~~12~~11. The method of claim ~~11~~10, further comprising:

positioning a rigid layer adjacent the void cell layer prior to the closing operation, wherein the closing operation further envelops the rigid layer and the rigid layer is removable from the foam layer, the void cell layer, and the cover.

~~13. The method of claim 11, wherein the separation layer adjoins the cover.~~

~~14~~12. The method of claim 10 or 11, wherein ~~the foam layer, the void cell layer, and~~ the cover ~~are~~ is fluid permeable and the at least one void cell in the void cell layer includes a drainage hole.

~~15. The method of claim 11, wherein at least one void cell in the void cell layer includes a drainage hole.~~

~~16~~13. The method of any one of claims 10 to 12 ~~11~~, wherein the foam layer substantially collapses at a lower pressure than the void cell layer.

~~17~~14. The method of any one of claims 1 to 13 ~~11~~, wherein a combination of the foam layer and the void cell layer provides a substantially monotonic pressure-deflection curve.

~~18~~15. The method of any one of claims 10 to 14 ~~11~~, wherein the void cell layer includes at least one of four or more void cells arranged in a matrix and two layers of void cells in an opposing or interdigitated arrangement.

~~19. The method of claim 11, wherein the void cell layer include two layers of void cells in an opposing or interdigitated arrangement.~~

~~20. The method of claim 11, wherein the cover includes one or more selectively detachable fasteners oriented along at least one side of the cover.~~

21. A washable layered mattress comprising:

a fluid permeable foam layer;

a fluid permeable void cell layer including a matrix of four or more void cells;

a separation layer oriented between the foam layer and the void cell layer; and

a cover that envelops and constrains the foam layer and the void cell layer in a selected position and orientation, wherein the foam layer, the void cell layer, and the cover are removable from one another.