CLAIMS

I/We claim:

1. A system comprising:

a pressure-mitigation apparatus that includes a geometric arrangement of inflatable chambers formed by interconnections between a top layer and a bottom layer,

wherein an outer surface of the bottom layer is comprised of silicone rubber, and

wherein the inflatable chambers are configured to mitigate contact pressure applied to a human body by a support surface when pressure in the inflatable chambers is varied; and

an attachment apparatus for securing the pressure-mitigation apparatus to the support surface;

wherein the attachment apparatus has a longitudinal body comprised of a non-slip material, and is configured to be positioned between the pressure-mitigation apparatus and the support surface such that the longitudinal body contacts the outer surface of the bottom layer of the pressure-mitigation apparatus and the support surface; thereby providing sufficient tackiness to naturally limit movement of the pressure-mitigation apparatus in relation to the support surface, but allowing the pressure-mitigation apparatus to be readily detached from the attachment apparatus, and

wherein the attachment apparatus includes an adhesive film disposed along a bottom surface that is to contact the support surface.

2. The system of claim 1

wherein the top layer of the pressure-mitigation apparatus is comprised of a second material that is configured for direct contact with the human body.

3. The system of claim 1 wherein the non-slip material is polyurethane, polypropylene, silicone, or a rubber compound.

4. The system of claim 1 wherein the attachment apparatus includes a second adhesive film disposed along a top surface that contacts the bottom layer of the pressure-mitigation apparatus.

5. The system of claim 1 wherein the attachment apparatus includes

a top layer that contacts the bottom layer of the pressure-mitigation apparatus, and

a bottom layer that contacts the support surface.

6. A system comprising:

a pressure-mitigation apparatus that includes a geometric arrangement of inflatable chambers formed by interconnections between a top layer and a bottom layer,

wherein an outer surface of the bottom layer is comprised of silicone rubber, and

wherein the inflatable chambers are configured to mitigate contact pressure applied to a human body by a support surface when pressure in the inflatable chambers is varied; and

an attachment apparatus for securing the pressure-mitigation apparatus to the support surface;

wherein the attachment apparatus includes:

a top layer that contacts the bottom later of the pressure-mitigation apparatus,

a bottom later that contacts the support surface, and

a pliable core disposed between the top and bottom layers,

wherein the attachment apparatus is comprised of a material that, when contacted by the outer surface of the bottom layer, provides sufficient tackiness to naturally limit movement of the pressure-mitigation apparatus in relation to the support surface, but allows the pressure-mitigation apparatus to be readily detached from the attachment apparatus, and

wherein the attachment apparatus includes an adhesive film disposed along a bottom surface that is to contact the support surface.

7. The system of claim 6 wherein the pliable core is comprised of polyurethane foam, polyethylene foam, latex, wool, cotton, a woven fabric, a non-woven fabric, natural fibers, or synthetic fibers.