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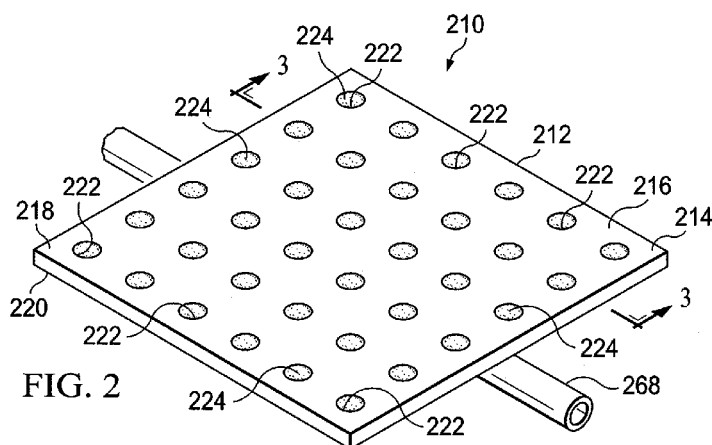
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(57) Abstract: A reduced-pressure treatment system includes an isolation device for isolating a tissue site from surrounding tissue for reduced-pressure treatment that is formed from a first material having a first bio-absorption term and at least a second material having a second and different bio-absorption term. The different materials allow the isolation device initially to function well for reduced-pressure treatment and then to experience degradation at a quicker pace which facilitates healing. In addition, a reduced-pressure manifold for treating a tissue site is presented that includes a flexible barrier member formed from a first material, which has a first bio-absorption term and formed with a first plurality of apertures; a second material, which has a second bio-absorption term, disposed within the plurality of apertures; wherein the first bio-absorption term is greater than the second bio-absorption term; and a reduced-pressure delivery member coupled to the barrier member for delivering reduced pressure to the second surface of the barrier member during reduced-pressure treatment.