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(54) Title: SHAPE-MORPHING APPARATUS FOR SHOCK AND VIBRATION PROTECTION

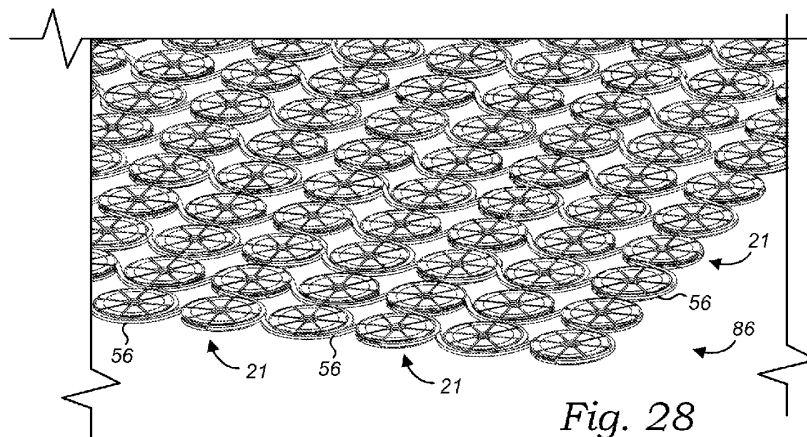


Fig. 28

(57) Abstract: A shape-morphing apparatus is disclosed for reducing the transmission of vibrational forces between a vibration source and an object. In at least one embodiment, a first composite layer provides a first upper plate and a vertically spaced apart first lower plate connected with the first upper plate. A second composite layer provides a second upper plate and a vertically spaced apart second lower plate connected with the second upper plate. A lower surface of the first lower plate is in lateral sliding abutting contact with an upper surface of the second upper plate. The first and second composite layers are held in sliding abutting contact by at least two clips. The clips are interconnected with one another by at least one resilient retainer positioned and configured for biasing the clips – and, in turn, the first and second composite layers – into a neutral position.

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