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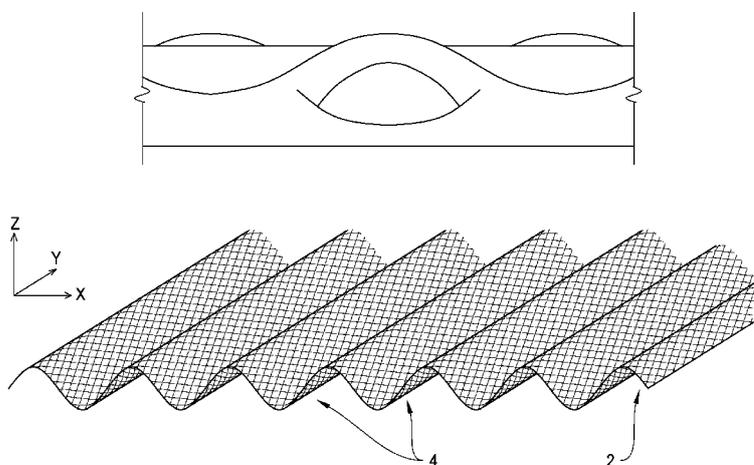
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(57) Abstract: A composite gasket for sealing, lightning strike protection and EMI shielding is provided. The gasket has a resilient conductive mesh sheet embedded with an elastomer gel layer. The conductive mesh is corrugated to provide a series of repeating waveforms, providing the gasket with a lower deflection force, better corrosion resistance, protection against lightning strikes and a higher EMI shielding capability. A second elastomer can be used around the edge portions of the gasket for improved abrasion resistance and increased tensile strength. A fiberglass sheet can be incorporated in the mesh for added reinforcement and support. The gaskets of the invention can be used on external aircraft components, such as external aircraft antenna mounts.



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| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| Y | US 4,900,877 (Dubrow et al.) 13 February 1990, see entire document. | 1-40 |
| Y | US 20090295103 A1 (Ebina et al.) 03 December 2009, see entire document. | 1-40 |
| Y | US 6,784,363 B2 (Jones) 31 August 2004, see entire document. | 12, 26, 39 |
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