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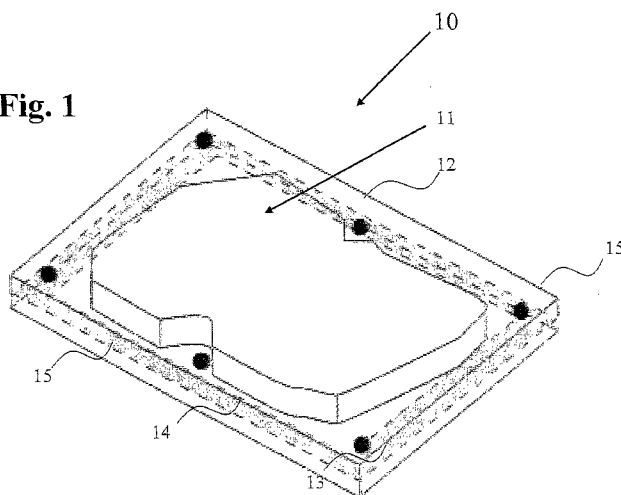
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(54) Title: LOW COST HIGH PERFORMANCE INJECTION MOLDED HARD DRIVE TOP COVER

Fig. 1



(57) Abstract: Provided herein is a low cost high performance light weight hard drive cover that is injection molded. The hard drive top cover has a flange portion that applies pressure to an elastomeric seal preventing ingress of moisture dust and other contaminants into the sensitive components. The flange portion is reinforced with a plurality of metallic strips that are placed between pressure application locations embedded within the polymer flange. The viscoelastic creep response of the polymer flange does not contribute to relaxation of pressure on the elastomeric seal due to the presence of the metallic reinforcement strips. The metallic reinforcement strips may have a convex curvature between pressure application locations. The metallic reinforcement strip may have apertures for passage of injection molded polymer creating delamination free intimate bond between the polymer in the flange and the metallic reinforcement strip.