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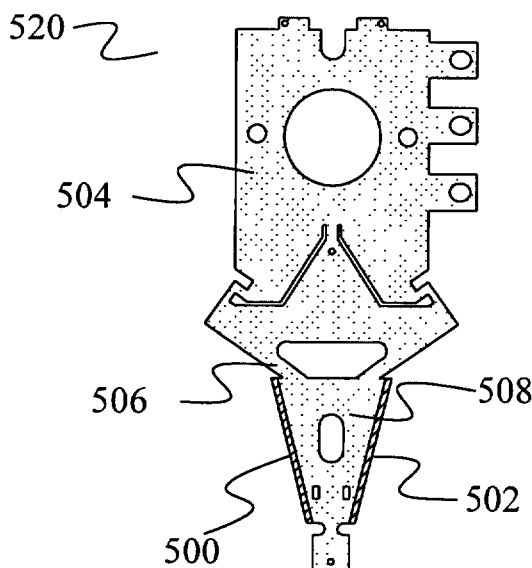
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(54) Title: ATTACHMENT AND MICROACTUATION AIDS IN A LIMINATED SUSPENSION



(57) Abstract: A laminates suspension (520, 720, 920, 11120, 1320, 1620, 1720, 2020, 2100) includes recesses (700, 900, 1100, 1302, 1600, 1700, 500, 1300, 2000, 2102) in one layer of the suspension that aid in attaching elements to the suspension and in utilizing a micromotor placed on the suspension. In particular, examples of the recesses include weld areas (900, 902) for welding the suspension to other items, fiducials (1600, 1602) that are used to align the suspension with other items, fiducials (1600, 1602) that are used to align the suspension with other items, micromotor recess (1302, 1304) that receive the micromotors, adhesive controls (1700, 1702) that restrict the location of adhesives on the suspension, electrical interconnect attachment tabs (700, 702) that accept flex electrical circuits, side rails (500, 502) that reduce torsional resonance during microactuation and microactuator hinges (2000, 2002) that reduce the force needed from microactuation. In addition, alaminated suspension with a single metal layer in the spring area (2110) is provided.



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