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(54) Title: HIGH FREQUENCY WELDING FOR HEADGEAR

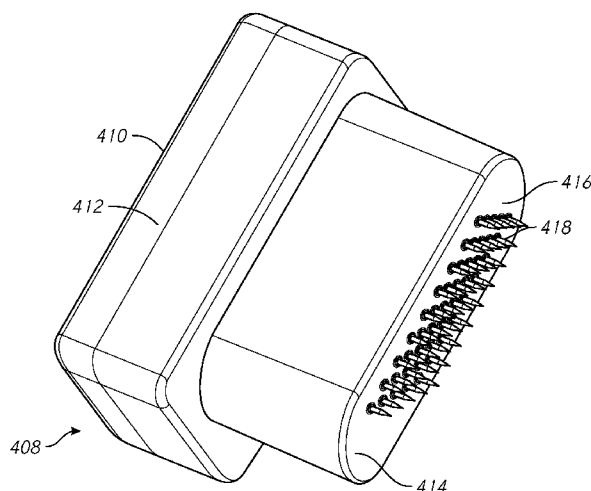


FIG. 5

(57) Abstract: Welded headgear sections can be produced by using a weld tool having pins protruding from a weld region contact surface to deliver high-frequency electromagnetic energy to a weld region defined by overlapping top and bottom headgear straps. The pins fully penetrate the top strap and at least partially penetrate the bottom strap. The pins concentrate the electromagnetic energy to achieve a weld joint of acceptable weld strength and aesthetic appeal.