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(54) Title: PLASMA-RESISTANT, WELDED ALUMINUM STRUCTURES FOR USE IN SEMICONDUCTOR PROCESSING APPARATUS

(57) Abstract: We have discovered a method of producing a complex-shaped aluminum alloy article, where welding has been employed to form the article, where an anodized aluminum coating is produced over a surface of the article including the weld joint, and where the anodized aluminum coating is uniform, providing improved performance over that previously known in the art for welded articles exposed to a corrosive plasma environment.



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