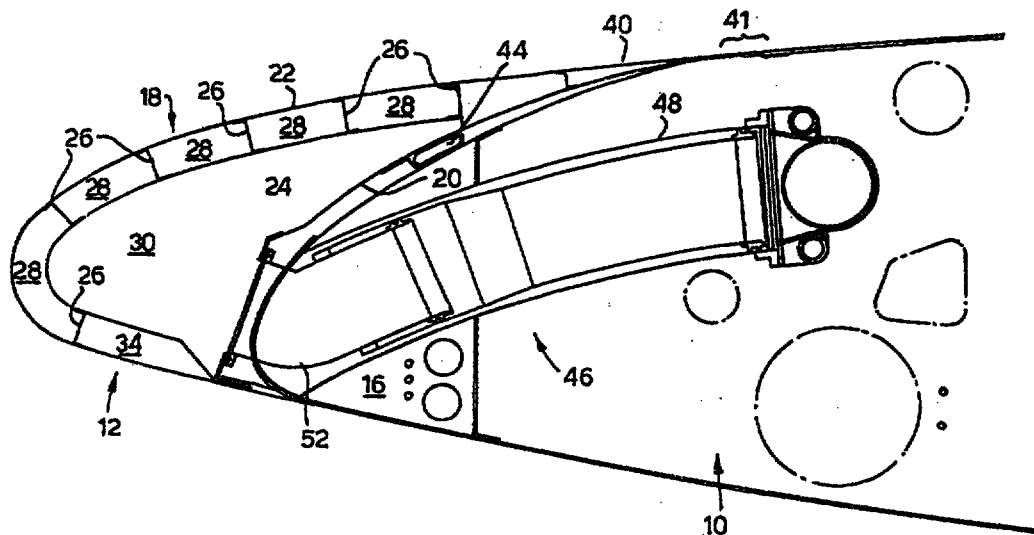


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(54) Title: LEADING EDGE HIGH LIFT DEVICES WITH LAMINAR FLOW CONTROL



(57) Abstract

An aircraft wing, wing assembly and method of reducing drag are provided. The wing assembly includes a main wing portion (10) and a leading edge high lift portion (12). The high lift portion is movable between a retracted position in which it generally merges with the main wing portion and a deployed position forwardly thereof. At least a substantial part of an upper surface (22) of the high lift portion is air permeable or perforated and in flow communication with a suction passage (30) in it. In flight, suction may be applied to the suction passage to reduce the chordwise extent of the turbulent boundary layer over the upper or lower wing surface.