

CLAIMS

1. A dome assembly for use in a thermal processing chamber, comprising:
an upper dome comprising:
a horizontal surface;
a central window portion having a height, a width and a window curvature, a window curvature defined by the ratio of the width to the height being at least 10:1; and
a peripheral flange having an angled flange surface, the peripheral flange engaging the central window portion at a circumference of the central window portion, the angled flange surface having a first surface at a first angle which is less than 35 degrees as measured from the horizontal surface; and
a lower dome opposite the upper dome, the lower dome and the upper dome defining an internal region,
wherein the angled flange surface further comprises a second surface between the circumference of the central window portion and the first surface, the second surface having a second angle, and wherein the ratio of the size of the first angle to the size of the second angle is about 3:1.