

WYNN-DYSON IMAGING SYSTEM WITH REDUCED THERMAL DISTORTION

ABSTRACT

A Wynn-Dyson imaging system with reduced thermal distortion is disclosed, wherein a reticle and wafer prisms are made of glass material having a coefficient of thermal expansion of no greater than about 100 ppb/°C. The Wynn-Dyson imaging system includes a first window disposed between the reticle and a reticle prism, and a second window disposed between the wafer and a wafer prism to maintain imaging symmetry. The first window substantially blocks convective and radiative heat from reaching the reticle prism, thereby reducing the amount of thermally induced image distortion in an image of the reticle formed on the wafer.

(Figure 3)