

ABSTRACT

A laser sealing system for heating a glass frit (122) distributed along a predefined path in a glass package (120) comprises a controller module (201), a laser module (202) and a laser scanning module (203). The controller module (201) is configured to so control the laser scanning module (203) that the laser scanning module (203) projects a generated laser beam (100) onto the glass frit (122). The laser scanning module (203) enables rapid periodic scanning of the glass frit (122) by the laser beam (100), allowing the glass frit to be heated in a substantially uniform and synchronous manner. This results in an improvement in the non-uniform temperature distribution problem arising from use of conventional packaging processes. The laser module (202) can produce a laser beam with a predefined power profile based on which heating of the glass frit is controllable. A laser sealing method is also disclosed.