

## ABSTRACT

### APPARATUS AND METHOD FOR PROVIDING AN INERTING GAS DURING SOLDERING

Described herein is an apparatus and method for providing an inerting gas  
5 during the application of soldering to a work piece. In one aspect, there is provided an  
enclosure for providing an inerting gas into an atmosphere above a solder reservoir  
during soldering of a work piece comprising: a tube in fluid communication with an  
inerting gas source wherein the tube comprises one or more openings for the flow of the  
inerting gas therethrough, a base wherein the tube resides in therein and comprises an  
10 interior volume, a neck comprising an opening and an interior volume in fluid  
communication with the interior volume of the base, and a cap proximal to the opening  
wherein the inerting gas source travels through the tube into the interior volume and into  
the atmosphere through the opening defined by the neck and cap.

15 FIG. 1