

TIP CAP HOLE BRAZING AND OXIDATION
RESISTANT ALLOY THEREFOR

ABSTRACT OF THE DISCLOSURE

5 A tip cap hole is loaded with a first composition
comprising particles of a first alloy having a solidus
temperature above the brazing temperature. The first
composition is covered with a second composition comprising
particles of a second alloy having a liquidus temperature
below the brazing temperature. The second composition is
10 heated to the brazing temperature to cause particles of the
second alloy to melt to form a liquid of the second alloy
which is carried into spaces between the particles of the
first alloy by capillarity. The liquid of the second alloy
is cooled to form a solid securely bonding the particles of
15 the first alloy. By weight, the second alloy has no more
than 1% B and from 3% to 11% Si. The first alloy has Cr
and at least about 5% Al, at least about 0.5% Hf, no more
than 0.5% Ti.

Fig. 3