

ABSTRACT

COMPLIANT LOCATING STRUCTURE FOR A BOND HEAD ASSEMBLY

- 5 A bond head assembly includes a collet and a planar compliant locating structure having a plane. The collet is operative to hold a die during a bonding process. The planar compliant locating structure includes a first flexural element that is positioned to contact a first side surface of the collet and a second flexural element that is positioned to contact a second side surface of the collet. The first and second side surfaces of the
- 10 collet are substantially orthogonal to each other. Each of the first and second flexural elements is arranged such that a portion thereof is deflectable by movement of the collet against the flexural element, thereby causing the first or second flexural element to exert a biasing force against the first or second side surface of the collet along the plane of the compliant locating structure to restrict positional shifts of the collet towards the flexural
- 15 element.

[FIG. 2A]