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(21) International Application Number: PCT/US99/21217 (22) International Filing Date: 14 September 1999 (14.09.99) (30) Priority Data: 60/100,272 14 September 1998 (14.09.98) US (63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application US 60/100,272 (CIP) Filed on 14 September 1998 (14.09.98) (71) Applicant (for all designated States except US): KULICKE & SOFFA INVESTMENTS, INC. [US/US]; 2101 Blair Mill Road, Willow Grove, PA 19090 (US). (72) Inventor; and (75) Inventor/Applicant (for US only): ELLIS, Timothy, W. [US/US]; 11 Versailles Circle, Doylestown, PA 18901 (US). (74) Agents: BARRON, Alexis et al.; Synnestvedt & Lechner LLP, 2600 Aramark Tower, 1101 Market Street, Philadelphia, PA 19107 (US).		(81) Designated States: CN, JP, KR, SG, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published — <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: WIRE-BONDING ALLOY COMPOSITES (57) Abstract A metal alloy composite comprising a phase of a highly-conductive base metal in the form of a matrix and a phase of another metal positioned within the matrix, the base metal being present in a major amount and the other metal being present in a minor amount, the metal alloy composite being capable of being formed into a very thin wire for use in a semiconductor application which includes a terminal assembly comprising an electrically conductive terminal in conductive contact with a conductive member and another electrically conductive terminal in conductive contact with a semiconductor, said terminals being joined by said alloy composite wire, examples of the base metal being gold, copper, and aluminum.		