

CORRECTED VERSION

(19) World Intellectual Property Organization  
International Bureau



\*G00002\*



(43) International Publication Date  
6 September 2002 (06.09.2002)

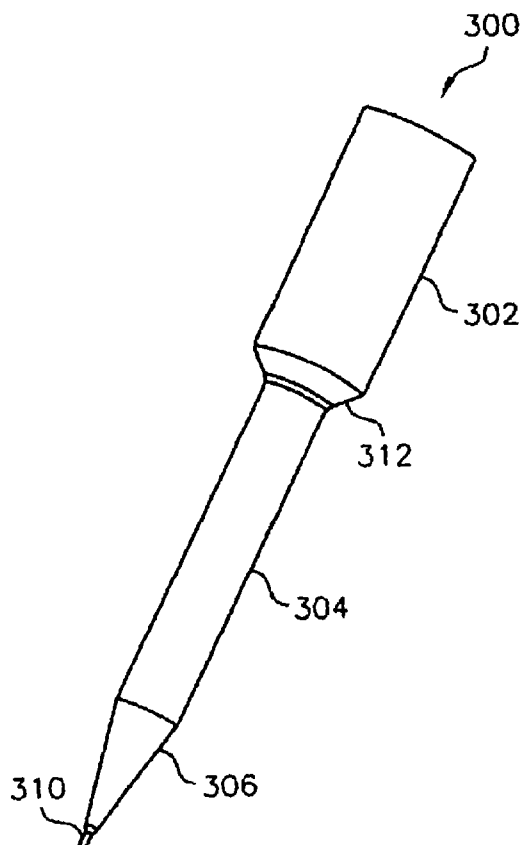
PCT

(10) International Publication Number  
**WO 02/068145 A1**

- (51) International Patent Classification<sup>7</sup>: **B23K 20/00**, 20/10
- (21) International Application Number: PCT/US02/06170
- (22) International Filing Date: 26 February 2002 (26.02.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
09/795,270 28 February 2001 (28.02.2001) US
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- (81) Designated States (*national*): CN, JP, KR, PH, SG.
- (84) Designated States (*regional*): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).
- Published:  
— with international search report

[Continued on next page]

(54) Title: CONTROLLED ATTENUATION CAPILLARY



(57) Abstract: A controlled attenuation bonding tool for bonding a fine wire to a substrate. In one embodiment, the bonding tool comprises a first cylindrical section having a substantially uniform first diameter; a second cylindrical section having a first end coupled to an end of the first cylindrical section, the second cylindrical section having a substantially uniform second diameter less than the first diameter; and a third section having a predetermined taper, a first end of the third section coupled to an end of the second cylindrical section. In another embodiment, the bonding tool comprises a planar area along at least a portion of a length of a cylindrical portion.



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**(48) Date of publication of this corrected version:**

9 January 2003

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**(15) Information about Correction:**

see PCT Gazette No. 02/2003 of 9 January 2003, Section II