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<p>(21) International Application Number: PCT/JP99/00904</p> <p>(22) International Filing Date: 26 February 1999 (26.02.99)</p> <p>(30) Priority Data: 10/47865 27 February 1998 (27.02.98) JP 10/333914 25 November 1998 (25.11.98) JP</p> <p>(71) Applicant (for all designated States except US): MAT-SUSHITA ELECTRIC INDUSTRIAL CO., LTD. [JP/JP]; 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 (JP).</p> <p>(72) Inventors; and (75) Inventors/Applicants (for US only): TSUBOI, Yasutaka [JP/JP]; 3-17-33-301, Makino Saka, Hirakata-shi, Osaka 573-1146 (JP). NAKANO, Kazuyuki [JP/JP]; 1677-13, Ochiai, Kosai-cho, Nakakoma-gun, Yamanashi 400-0423 (JP). FUKUDA, Shozo [JP/JP]; 11-3-505, Konoike-Motomachi, Higashiosaka-shi, Osaka 578-0974 (JP).</p> <p>(74) Agents: AOYAMA, Tamotsu et al.; Aoyama & Partners, IMP Building, 3-7, Shiromi 1-chome, Chuo-ku, Osaka-shi, Osaka 540-0001 (JP).</p>		<p>(81) Designated States: CN, SG, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).</p> <p>Published With international search report.</p>
<p>(54) Title: ELECTRONIC COMPONENT MOUNTING APPARATUS</p>		
<p>(57) Abstract</p> <p>The electronic component mounting apparatus (1) comprises, as a device for illuminating a mark (9) on a printed circuit board (14) for recognition, an illumination device (10) with a light path adjustable member (5). This light path adjustable member (5) is disposed between the illumination source unit (2) and the object (9) to be illuminated. At least either the light incidence side or emission side of the light path adjustable member (5) is divided into a plurality of subareas (6, 7, 8) each having a different index of refraction. Each of the subareas (6, 7, 8) emits light at respective different index of refraction. The emitted light can be collected on a specific area containing the object (9), and appropriate illumination light can thus be emitted to the object (9).</p>		