

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: H05K 13/04	A1	(11) International Publication Number: WO 98/36629 (43) International Publication Date: 20 August 1998 (20.08.98)
(21) International Application Number: PCT/JP98/00644 (22) International Filing Date: 16 February 1998 (16.02.98) (30) Priority Data: 9/31965 17 February 1997 (17.02.97) JP 9/148963 6 June 1997 (06.06.97) JP (71) Applicant (for all designated States except US): MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. [JP/JP]; 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-0050 (JP). (72) Inventors; and (75) Inventors/Applicants (for US only): KITAMURA, Naoyuki [JP/JP]; Matsushita Electric Industrial Co., Ltd., 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-0050 (JP). OKUDA, Osamu [JP/JP]; Matsushita Electric Industrial Co., Ltd., 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-0050 (JP). KABESHITA, Akira [JP/JP]; Matsushita Electric Industrial Co., Ltd., 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-0050 (JP). TAKEDA, Takeshi [JP/JP]; Matsushita Electric Industrial Co., Ltd., 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-0050 (JP).		(74) Agent: ISHIHARA, Masaru; Fujiwara Building, 5th floor, 13-2, Kyomachi-bori 1-chome, Nishi-ku, Osaka-shi, Osaka 550-0003 (JP). (81) Designated States: CN, KR, SG, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>

(54) Title: METHOD AND APPARATUS FOR MOUNTING ELECTRONIC COMPONENTS**(57) Abstract**

Method and apparatus for mounting electronic components in which components are efficiently fed and transferred for enhancing productivity are provided. Tray draw-out means (6) is disposed at a component feeding unit (4) for pulling out a tray (3) accommodating electronic components (2) from the component feeding unit (4) to a given pick-up position, where the electronic components (2) are transferred by the transfer mechanism (11) onto a temporary holder (8) disposed on a draw-out arm (7) of the tray draw-out means (6). Mounting head (5) has a plurality of mounting nozzles (5a), with which the mounting head (5) picks up several electronic components (2) aligned on the temporary holder (8) at a time and mounts them on to a circuit board (1) which has been loaded and located at a prescribed position.

