(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
12 September 2025 (12.09.2025)

WIPO | PCT

(10) International Publication Number
WO 2025/186646 A1

(51) International Patent Classification:
H05K 13/02 (2006.01) *H05K 13/04* (2006.01)

(21) International Application Number:
PCT/IB2025/051458

(22) International Filing Date:
12 February 2025 (12.02.2025)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2403175.9 05 March 2024 (05.03.2024) GB

(71) Applicant: **ASMPT SMT SINGAPORE PTE. LTD.** [SG/SG]; 2 Yishun Avenue 7, Singapore 768924 (GB).

(72) Inventors: **PAPE, Simon Stuart**; Pent House, Penn Hill Park, Yeovil Somerset BA20 1SE (GB). **BILES, Christopher Mark**; 25 Roman Road, Weymouth Dorset DT3 5JQ (GB). **EDELSTEIN, Jason Mark**; 36 Surrey Road, Bournemouth Dorset BH4 9BX (GB).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UY, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

(54) Title: SMT MATERIAL TRANSFER

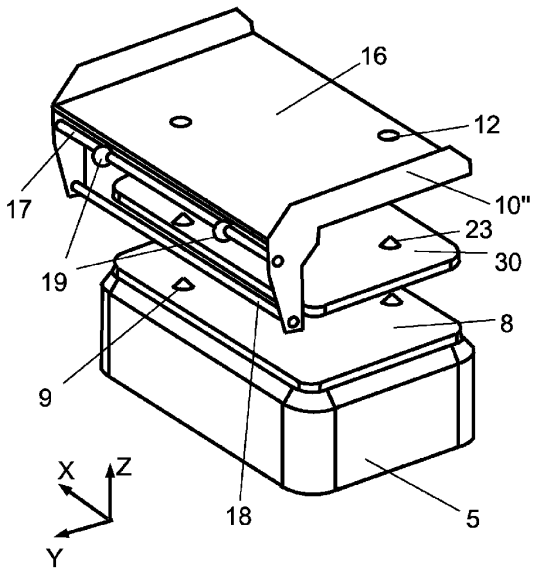


FIG. 8

(57) Abstract: A pallet system, in which single pallets carrying SMT material may be carried by an AGV, and mechanically located at an SMT machine as required. In particular, no additional lifting mechanisms are required other than that provided as standard in conventional AGVs (i.e. the above-mentioned vertically-drivable lifting platform). The pallet may be left in situ at the machine, drawing any required power from it, and so effectively becomes part of that machine.

[Continued on next page]

WO 2025/186646 A1

Published:

— *with international search report (Art. 21(3))*
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
— *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*