

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
21 February 2002 (21.02.2002)

PCT

(10) International Publication Number
WO 02/14202 A1

(51) International Patent Classification⁷: **B66C 13/18,**
23/58

(21) International Application Number: PCT/SG00/00117

(22) International Filing Date: 16 August 2000 (16.08.2000)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **PSA CORPORATION LIMITED** [SG/SG]; Psa Building, 460 Alexandra Road, Singapore 119963 (SG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PHANG, Siew, Loon** [SG/SG]; Psa Corporation Limited, Psa Building, 460 Alexandra Road, Singapore 119963 (SG). **SHUM, Siew, Hung** [SG/SG]; Psa Corporation Limited, Psa Building, 460 Alexandra Road, Singapore 119963 (SG).

(74) Agent: **SHOOK LIN & BOK**; #18-00 Aia Tower, 1 Robinson Road, Singapore 048542 (SG).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

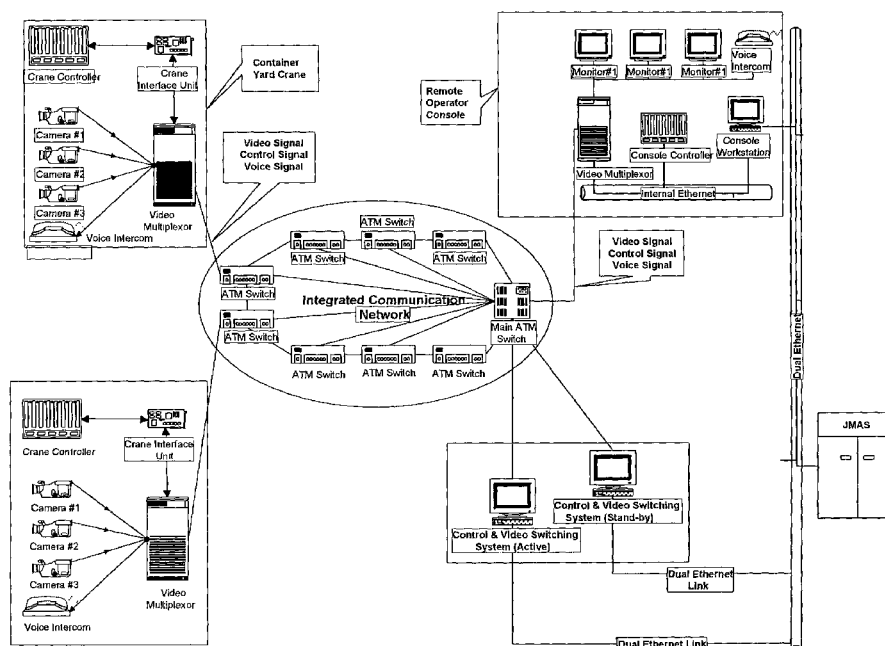
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

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.

(54) Title: REMOTE CONTAINER HANDLING SYSTEM



(57) Abstract: The present invention provides a container handling system comprising: a plurality of yard cranes for moving the containers; control means for controlling the cranes and located remotely therefrom; communication means for providing two way communication between the control means and each of the plurality of cranes; wherein the control means is operable by a single operator to control each of the plurality of cranes. The communication means preferably operates in asynchronous transmission or transfer mode, and is operable to transmit signals in logical connections using the asynchronous transmission mode virtual path facility.