

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H04N 1/41	A1	(11) International Publication Number: WO 98/03008 (43) International Publication Date: 22 January 1998 (22.01.98)
(21) International Application Number: ✓ PCT/US97/11976 (22) International Filing Date: ✓ 9 July 1997 (09.07.97) (30) Priority Data: 08/682,043 ✓ 16 July 1996 (16.07.96) ✓ US (71) Applicant (for all designated States except US): ERICSSON, INC. [US/US]; P.O. Box 13969, Research Triangle Park, NC 27709-3969 (US). ✓ (72) Inventors; and (75) Inventors/Applicants (for US only): HASSAN, Amer [US/US]; 12623 N.E. 107th Place, Kirkland, WA 98033 (US). MATTHEWS, David, G. [US/US]; Apartment 1502, 5350 Amesbury Drive, Dallas, TX 75206 (US). ✓ (74) Agents: BENNETT, David, E. et al.; Rhodes, Coats & Bennett, LLP, P.O. Box 5, Raleigh, NC 27602 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>

(54) Title: **METHOD FOR TRANSMITTING MULTIREOLUTION IMAGE DATA IN A RADIO FREQUENCY COMMUNICATIONS SYSTEM**

(57) Abstract

The present invention relates to a method for transmitting multiresolution image data via wireless devices in a radio frequency communication system wherein images are decomposed into levels of resolution. The image data is stored in discrete information blocks in an image storage unit including a base image and one or more image details. The base image represents the coarsest resolution of the image. Each image detail, when added to the base image, improves the resolution of the image. An image display unit (52) transmits a request for image data to the image storage unit (46). In response to the initial request, the base image is transmitted to the image display unit. If the base image is insufficient, the resolution can be increased incrementally by sending additional image data requests to transmit additional image detail. The additional image detail is then transmitted to the image display unit and recombined with the base image to provide a higher level of resolution to the image.

