



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁶:

H04B 7/185, 10/105, H04H 1/100, H04L 9/00

A1

(11) International Publication Number:

WO 98/20631

(43) International Publication Date:

14 May 1998 (14.05.98)

(21) International Application Number: PCT/US97/19919

(22) International Filing Date: 31 October 1997 (31.10.97)

(30) Priority Data:

08/746,018

5 November 1996 (05.11.96) US

(71) Applicant: WORLDSPACE, INC. [US/US]; 11 Dupont Circle, N.W., Washington, DC 20036 (US).

(71)(72) Applicant and Inventor: JOHNSTONE, Robert, L. [US/US]; 71 Western Avenue, West Boothbay Harbor, ME 04575-0100 (US).

(72) Inventor: CAMPANELLA, S., Joseph; 18917 Whetstone Circle, Gaithersburg, MD 20879 (US).

(74) Agents: HOLMES, John, E. et al.; Roylance, Abrams, Berdo & Goodman, L.L.P., 1225 Connecticut Avenue, N.W., Washington, DC 20036 (US).

(81) Designated States: AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GE, GH, HU, ID, 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, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published

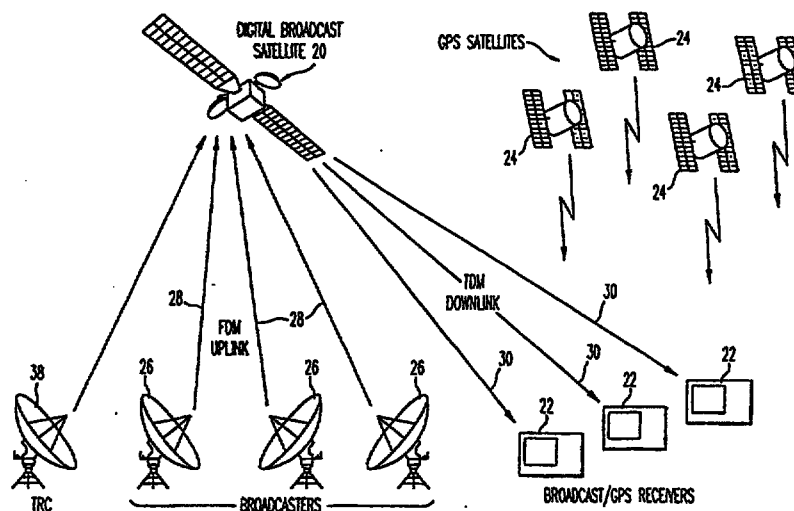
With international search report.

With amended claims.

This Sheet Has Been Replaced



(54) Title: SYSTEM FOR PROVIDING LOCATION-SPECIFIC DATA TO A USER



(57) Abstract

An FDMA/TDM satellite-based broadcast system is used to provide digital maps (120) and other type of data to users at remote locations. User selection of the desired data is achieved by monitoring the TDM downlink channels (30) of the broadcast system in accordance with a specific schedule or until a specific identification code is detected. The user terminals (22) are equipped with Global Positioning System receivers (84) which allow the position of the users to be determined. Based on the user position, the user terminal (22) are able to convert general data to location-specific data tailored to the need of the user. The general data may comprise a digital map covering a wide geographic area, and the location-specific data may comprise a map (120) covering a portion of the geographic region where the user is located.