

Maxell Claim Construction Presentati

Asserted Patents

Patents asserted against Apple

- US 6,748,317
- US 6,580,999
- US 6,430,498
- US 6,329,794
- US 6,928,306
- US 7,116,438
- US 8,339,493
- US 10,084,991
- US 6,408,193
- US 10,212,586

**U.S. Patent Nos.
6,748,317; 6,580,999; 6,430,498**

Portable Terminal with the Function of Walking Navigation

US06748317B2

(12) **United States Patent**
Maruyama et al.

(10) Patent No.: **US 6,748,317 B2**
 (45) Date of Patent: ***Jun. 8, 2004**

(54) **PORTABLE TERMINAL WITH THE FUNCTION OF WALKING NAVIGATION**

(75) Inventors: **Kishiko Maruyama, Kodaira (JP); Shigeru Shimada, Kodaira (JP); Toshichiro Suzuki, Iwaki (JP)**

(73) Assignee: **Hitachi, Ltd., Tokyo (JP)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **10/428,755**
 (22) Filed: **May 5, 2003**
 (65) **Prior Publication Data**
 US 2003/016562 A1 Oct. 16, 2003

Related U.S. Application Data

(63) Continuation of application No. 10/175,423, filed on Jun. 18, 2002, now Pat. No. 6,580,999, which is a continuation of application No. 09/913,634, filed on Jul. 11, 2000, now Pat. No. 6,430,499.

(30) **Foreign Application Priority Data**
 Jul. 12, 1999 (JP) 11-197810
 (51) Int. Cl. **G01C 21/00**
 (52) U.S. Cl. **701/200; 701/201; 342/357.01; 342/357.08**
 (58) **Field of Search**
 701/200, 201, 701/202, 211, 212, 213, 214, 340/986, 995, 342/357.01, 357.06, 357.08, 357.18

References Cited

U.S. PATENT DOCUMENTS
 5,146,231 A * 01/99 Ghacen et al. 342/419
 5,228,448 A 04/98 Stitzer et al. 342/357.06
 6,099,325 A 07/98 Lautner 342/403
 6,124,026 A 03/00 Garbowala et al. 342/207.09
 6,540,698 B1 * 03/01 Maruyama et al. 701/200

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 JP 03/0994 03/94
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* cited by examiner

Primary Examiner—Yoshio Beaulieu
 (74) Attorney, Agent, or Firm—Manning, Stanger & Malin, P.C.

ABSTRACT

(21) Appl. No.: **10/173,423**
 (22) Filed: **Jun. 18, 2002**
 (65) **Prior Publication Data**
 US 2002/016562 A1 Nov. 7, 2002

Related U.S. Application Data

(63) Continuation of application No. 09/813,634, filed on Jul. 11, 2000, now Pat. No. 6,430,499.

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 (51) Int. Cl. **G01C 21/00**
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6 Claims, 10 Drawing Sheets

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(12) **United States Patent**
Maruyama et al.

(10) Patent No.: **US 6,580,999 B2**
 (45) Date of Patent: ***Jun. 17, 2003**

(54) **PORTABLE TERMINAL WITH THE FUNCTION OF WALKING NAVIGATION**

(75) Inventors: **Kishiko Maruyama, Kodaira (JP); Shigeru Shimada, Kodaira (JP); Toshichiro Suzuki, Iwaki (JP)**

(73) Assignee: **Hitachi, Ltd., Tokyo (JP)**

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6 Claims, 10 Drawing Sheets

US06430499B2

(12) **United States Patent**
Maruyama et al.

(10) Patent No.: **US 6,430,499 B2**
 (45) Date of Patent: ***Jun. 17, 2003**

(54) **PORTABLE TERMINAL WITH THE FUNCTION OF WALKING NAVIGATION**

(75) Inventors: **Kishiko Maruyama, Kodaira (JP); Shigeru Shimada, Kodaira (JP); Toshichiro Suzuki, Iwaki, all of (JP)**

(73) Assignee: **Hitachi, Ltd., Tokyo (JP)**

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 (58) **Field of Search**
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References Cited

U.S. PATENT DOCUMENTS
 5,146,231 A * 01/99 Ghacen et al. 342/419

13 Claims

U.S. Patent Nos. 6,748,317; 6,580,999; 6,430,499

Terms in Dispute

- Term 1:** “device for getting location information denoting a [p]resent of said terminal”
- Term 2:** “a device for getting a location information of another portable terminal from said another terminal via connected network”
- Term 3:** “a device for getting a location information of another portable terminal”
- Term 4:** “a device for retrieving a route from said present place to said destination”

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