

The
United
States
of
America



The Director of the United States Patent and Trademark Office

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States, of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extensions.

Jon W. Dudas

Director of the United States Patent and Trademark Office



US006810817B1

(12) **United States Patent**
James

(10) Patent No.: **US 6,810,817 B1**
(45) Date of Patent: **Nov. 2, 2004**

(54) **INTELLIGENT TRANSPORT SYSTEM**

(76) Inventor: **William James**, 2799 Rustic Pl. #301,
St. Paul, MN (US) 55117

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

(21) Appl. No.: **10/081,981**

(22) Filed: **Feb. 20, 2002**

Related U.S. Application Data

(60) Provisional application No. 60/271,032, filed on Feb. 23, 2001.

(51) Int. Cl.⁷ **B61J 3/00**

(52) U.S. Cl. **104/88.04**; 701/23; 340/994;
104/88.02

(58) Field of Search **104/88.02, 88.03,**
104/88.04, 88.05; 701/23, 24, 25, 26; 318/587;
246/3, 4; 340/994

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,990,743 A 7/1971 Larson
4,830,216 A * 12/1986 Tyler et al. 700/229
4,366,547 A * 8/1988 Modery et al. 700/229
5,168,451 A * 12/1992 Bolger 701/117
5,177,684 A * 1/1993 Harker et al. 701/117
5,289,778 A 3/1994 Romine

5,372,072 A 12/1994 Hany
5,590,601 A 1/1997 Lund
5,590,604 A 1/1997 Lund
5,598,783 A 2/1997 Lund
5,775,227 A 2/1998 Mulren
5,797,330 A 8/1998 Li
5,799,263 A * 8/1998 Culbertson 701/117
5,979,334 A 1/1999 Lund
6,012,396 A 12/2000 Schulz
6,405,132 B1 * 6/2002 Breed et al. 701/901

OTHER PUBLICATIONS

A Review of the State of PT, J. Edward Anderson.
Problems of Dual Mode Transportation, J. Edward Anderson.
Optimization of Transit System Char., J. Edward Anderson.

* cited by examiner

Primary Examiner—Frantz F. Jules

(57) **ABSTRACT**

A public transportation system includes control by highly distributed communications, ultra-light transit vehicles suspended from single or dual rails and powered by electricity. The electric power supplied independently and supplemented by wind generators and solar panels. The transit vehicles, are suitable to transport from one to four persons. The system includes a plurality interconnected rails with main conduits and station conduits to provide non-stop transportation from one station to another station.

10 Claims, 27 Drawing Sheets

