

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

(10) Patent No.: **US 8,483,364 B2**
 (45) Date of Patent: **Jul. 9, 2013**

(54) **TELECOMMUNICATION SYSTEM FOR IMPROVING QUALITY OF SERVICE**

379/15.01, 29.01, 29.02, 32.01, 112.01, 112.09,
 379/133, 134, 196, 198, 221.03, 221.04,
 379/242

(76) Inventors: **Michael Feldman**, Thornhill (CA);
Alexander Feldman, Maple (CA); **Boris Feldman**, Thornhill (CA)

See application file for complete search history.

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 808 days.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,823,377 A *	4/1989	Sugiura et al.	379/156
4,995,109 A *	2/1991	Arizumi et al.	379/106.08
5,661,725 A *	8/1997	Buck et al.	370/377
5,740,236 A *	4/1998	Pruitt	379/201.03
5,999,617 A *	12/1999	Oyanagi et al.	379/265.1
6,002,665 A *	12/1999	Choe	370/217
7,616,626 B2	11/2009	Fbisawa	370/357
2004/0174847 A1 *	9/2004	Menon et al.	370/328
2005/0117572 A1 *	6/2005	Ebisawa	370/357
2012/0099714 A1 *	4/2012	Hodge	379/88.16

* cited by examiner

Primary Examiner — Binh Tieu

(21) Appl. No.: **12/660,192**

(22) Filed: **Feb. 23, 2010**

(65) **Prior Publication Data**

US 2011/0206188 A1 Aug. 25, 2011

(51) **Int. Cl.**
H04M 1/24 (2006.01)
H04M 3/08 (2006.01)
H04M 3/00 (2006.01)

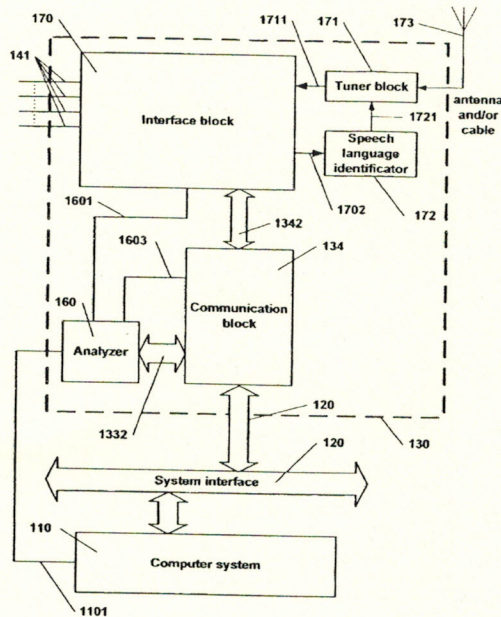
(52) **U.S. Cl.**
 USPC 379/2; 379/1.04; 379/9; 379/15.01;
 379/134; 379/198

(58) **Field of Classification Search**
 USPC 379/1.01, 2, 8, 9, 9.06, 14.01, 10.01,

(57) **ABSTRACT**

Telecommunication system servicing a plurality of telecommunication interface lines that allows improving a service quality by keeping connection on these lines in the case of computer freezing and during its restart (reboot).

20 Claims, 7 Drawing Sheets



THIS IS TO CERTIFY that this is a true copy from the records of the U. S. Patent and Trademark Office of the first page of the above identified patent:

J. Wallace
 Certifying Officer

7-30-2013
 Date

