UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE PATENT TRIAL AND APPEAL BOARD
BROADCOM CORPORATION
Petitioner
V.
WI-FI ONE, LLC
Patent Owner

Paper No. ___

PETITIONER'S DEMONSTRATIVES FOR ORAL ARGUMENT

Case IPR2013-00636 U.S. Patent No. 6,424,625

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Inter Partes Review Nos. 2013-00601, 2013-00602, and 2013-00636 U.S. Patent Nos. 6,772,215, 6,466,568, and 6,424,625

PETITIONER'S ORAL ARGUMENT

Overview for '215 Patent

Description of '215 patent

 Overview of Applied Seo Prior Art Reference & Anticipation of Claims

Issues Raised by Patent Owner

The '215 Patent

LISM6777215B1

(12) United States Patent Rathonvi et al.

(10) Patent No.: US 6,772,215 B1 (45) Date of Patent: Aug. 3, 2004

(54)	METHOD FOR MINIMIZING FEEDBACK
	RESPONSES IN ARQ PROTOCOLS

(75)	Inventors:	Bela Rathonyi, Malmö (SE); Joachin
		Sachs, Aachen (DE); Michael Mever.
		Aachen (DE); Per Beming, Stockholn
		(SE); Mathias Johansson, Sollentuna
		(SE); Christiaan Roobol, Hässelby
		(SE); Erik Schön, Tokyo (JP);
		Kazuhiko Inoue, Tokyo (JP)

(73) Assignce: Telefonaktiebolaget LM Ericsson (publ), Stockholm (SE)

(*) 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.: 09/537,146

(22) Filed: Mar. 29, 2000

Related U.S. Application Data								
(60)	Provisional 1999.	application	No.	60/128,517,	filed	on	Apr.	9,

Int. Cl.7	G06F 15/16
U.S. Cl	
Field of Search	709/230; 370/229
	370/232, 394, 395.1, 349
	U.S. Cl

References Cited U.S. PATENT DOCUMENTS

4,439,859 A		Donnan 371/32
5,477,550 A	* 12/1995	Crisler et al 714/748
5,566,170 A	* 10/1996	Bakke et al 370/392
5,673,252 A	* 9/1997	Johnson et al 370/449
5,752,078 A		Delp et al 710/7
5,754,754 A	5/1998	Dudley et al 395/182.16

5,799,012	Α	*	8/1998	Averst et al	370/336
5,968,197	Α	*	10/1999	Doiron	714/748
5,991,299	Α	*	11/1999	Radogna et al	370/392
6,034,963	Α	*	3/2000	Minami et al	370/401
6,069,886	Α	*	5/2000	Ayerst et al	370/336
6,317,430	B1	*	11/2001	Knisely et al	370/394
6,359,877	B1	*	3/2002	Rathonyi et al	370/349
6,473,399	B1	*	10/2002	Johansson et al	370/229
6,542,490	B1	*	4/2003	Ahmadvand et al	370/338
FO	RE	IG	N PATE	NT DOCUMENTS	

0 768806 A2 4/1997

OTHER PUBLICATIONS

Throughput analysis of some ARQ protocols in the presence of feedback errors by Cam et al.; IEEE; vol. 45 No. 1, Jan. 1907.*

Richard Cam and Cyril Leung; Throughput Analysis of Some ARQ Protocols in the Presence of Feedback Errors; IEEE Transactions on Communications; Jan. 1997; vol. 45, No. 1; pp. 35–44.

ISR, PCT/SE/ 00/00677, Completed Aug. 23, 2000.

* cited by examiner

Primary Examiner—Frantz B. Jean

(57)

A method for minimizing feedback responses in an ARQ protocol is disclosed, whereby different mechanisms can be used to indicate erroneous D-PDUs and construct S-PDUs. The S-PDUs are constructed so as to optimize performance in accordance with certain criteria. One such criterion used is to minimize the size of the S-PDUs. A second such criterion used is to maximize the number of SNs included in an S-PDU of limited size.

ABSTRACT

64 Claims, 3 Drawing Sheets

type=LIST	
LENGTH=0	
LENGTH#4	
SN ₁ =1	Ξ
SN ₂ =25	
SN ₃ =50	
SN ₄ =95	

BROADCOM 1001

Patent No.: US 6,772,215 B1
Date of Patent: Aug. 3, 2004

METHOD FOR MINIMIZING FEEDBACK RESPONSES IN ARQ PROTOCOLS

1. A method for minimizing feedback responses in an ARQ protocol, comprising the steps of:

sending a plurality of first data units over a communication link;

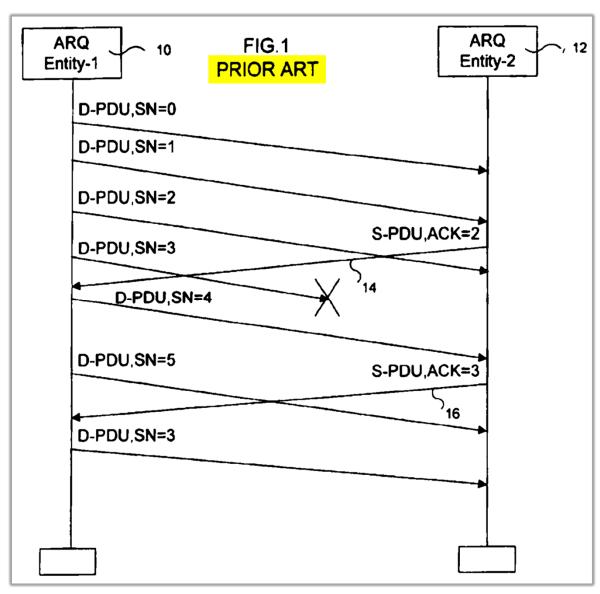
receiving said plurality of first data units; and

responsive to the receiving step, constructing a message field for a second data unit, said message field including a type identifier field and at least one of a sequence number field, a length field, and a content field.

'215 Patent, Claim 1 (Ex. 1001)

DOCKET

The '215 Patent Prior Art



'215 Patent, FIG. 1 (Ex. 1001)

DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

