

EXHIBIT 21



US005958006C1

(12) **EX PARTE REEXAMINATION CERTIFICATE** (7311st)

United States Patent

Eggleston et al.

(10) **Number:** **US 5,958,006 C1**

(45) **Certificate Issued:** **Jan. 12, 2010**

(54) **METHOD AND APPARATUS FOR COMMUNICATING SUMMARIZED DATA**

5,742,905 A 4/1998 Pepe et al. 455/461

OTHER PUBLICATIONS

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Chang, Shi-Kuo; Leung, L. "A Knowledge-Based Message Management System." ACM Transactions on Office Information Systems, vol. 5, No. 3, pp. 213-236 (Jul. 1987).

(73) Assignee: **Motorola, Inc.**, Schaumburg, IL (US)

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Reexamination Request:

No. 90/010,282, Sep. 16, 2008

Kaashoek, Frans; Pinckney, Tom; Tauber, Joshua A. "Dynamic Documents: Extensibility and Adaptability in the WWW." MIT Laboratory for Computer Science (Sep. 15, 1994).

Reexamination Certificate for:

Patent No.: **5,958,006**
Issued: **Sep. 28, 1999**
Appl. No.: **08/574,541**
Filed: **Dec. 19, 1995**

Kaashoek, Frans; Pinckney, Tom; Tauber, Joshua A. "Dynamic Documents: Mobile Wireless Access to the WWW." Proceeding of the IEEE Workshop on Mobile Computing Systems and Applications (Dec. 1994).

Related U.S. Application Data

Primary Examiner—Alexander J Kosowski

(63) Continuation-in-part of application No. 08/557,657, filed on Nov. 13, 1995, now Pat. No. 5,771,353.

(57) **ABSTRACT**

(51) **Int. Cl.**

- H04L 29/06** (2006.01)
- H04L 12/58** (2006.01)
- H04L 12/56** (2006.01)
- H04L 12/28** (2006.01)
- H04L 29/08** (2006.01)
- H04Q 7/22** (2006.01)
- H04Q 7/38** (2006.01)

In a main embodiment, select and summary (S&S) indices (213, 228) are used to provide user flexibility in reviewing and requesting otherwise filtered data. Both the user's remote unit (201) and communication server (220) maintain S&S indices containing identifying (summary) information about data which has not been fully transferred between the communication server and remote unit. As new data is filtered for transfer (704-706), identifying information is captured (710) for any non-qualifying data by either a host unit or the communication server. This information is stored (714) in the communication server's S&S index, and transferred (718) via update messaging to the remote unit. When reviewing its updates or S&S index, the user may request (722) such of the data that it desires partial or full transfers of for further review. Thus, a cost efficient review mechanism is provided to users for determining whether to transfer data that otherwise fails selected filter parameters.

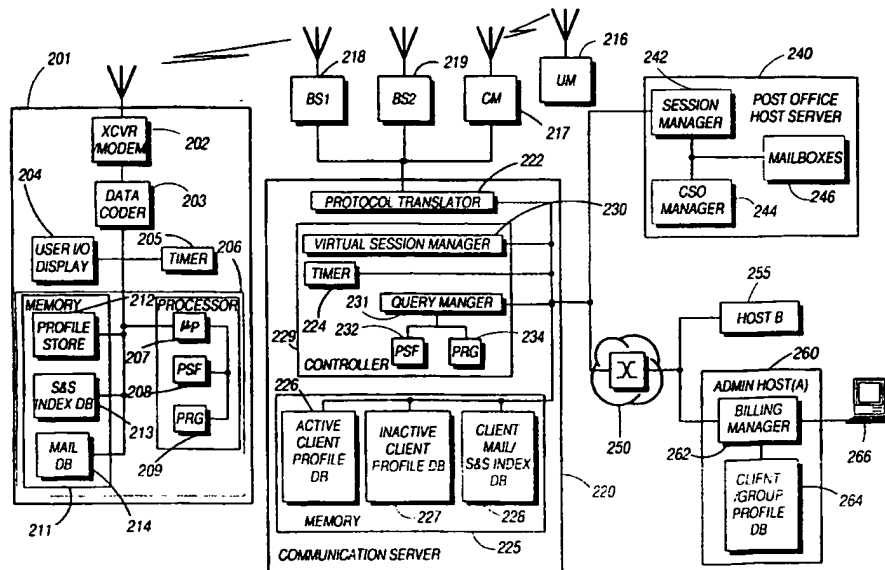
(52) **U.S. Cl.** **709/219: 709/206**

(58) **Field of Classification Search** None
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,559,800 A 9/1996 Mousseau et al. 370/401



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EX PARTE
REEXAMINATION CERTIFICATE
ISSUED UNDER 35 U.S.C. 307

THE PATENT IS HEREBY AMENDED AS
INDICATED BELOW.

Matter enclosed in heavy brackets [] appeared in the patent, but has been deleted and is no longer a part of the patent; matter printed in italics indicates additions made to the patent.

AS A RESULT OF REEXAMINATION, IT HAS BEEN DETERMINED THAT:

Claims 24, 25 and 26 are determined to be patentable as amended.

Claim 27, dependent on an amended claim, is determined to be patentable.

Claims 1-23 were not reexamined.

24. A communications server adapted for communicating with a host server and a communication unit including a processor, the communications server comprising:

- (a) a user parameter store adapted to store user parameters; and
- (b) a data transfer manager, coupled with the user parameter store, adapted to control communication of data units between the communication unit and the host

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server including receiving individually filtered data units from the host server based on at least one user-definable filter [parameters] *parameter* to identify whether a data unit is a qualifying or non-qualifying data unit, wherein for qualifying data units, a summary part and an additional part is received and for non-qualifying data units, the summary part without the additional part is received, and providing the communication unit with the summary part and the additional part for qualifying data units and providing the communication unit with the summary part without the additional part for non-qualifying data units.

25. The communications server of claim 24, further comprising:

- (c) a summary store storing the [identifying information] *summary part*.

26. A controller of communication unit adapted for requesting data over a wireless communication channel from a further data processing host via a communication server, the controller comprising:

- (a) a summary store [operable for storing] *to store* identifying information received from the host via the communications server about data units not [being] sent from the host to the communication unit and not [being] received at the communication unit;

wherein said data units are individually filtered, prior to reception at the communication unit, based upon user definable filter parameters.

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