

Nicolas Vargas

1) Family number: 41556763 (US2008050025A)

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Title: METHODS AND APPARATUS FOR REDUCING STORAGE SIZE

Abstract: Prediction-based compression engines are spoon-fed with sequentially efficiently compressible (SEC) streams of input data that make it possible for the compression engines to more efficiently compress or otherwise compact the incoming data than would be possible with streams of input data accepted on a TV-raster scan basis. Various techniques are disclosed for intentionally forming SEC input data streams. Among these are the tight packing of alike files or **fragments** into concatenation suitcases and the decomposition of files into substantially predictably consistent (SPC) **fragments** or segments that are routed to different suitcases according to their type. In a graphics-directed embodiment, image frames are partitioned into segment areas that are internally SPC and multidirectional walks (i.e., U-turning walks) are defined in the segment areas where these defined walks are traced during compression and also during decompression. A variety of pre-compression data transformation methods are disclosed for causing apparently random data sequences to appear more compressibly alike to each other. The methods are usable in systems that permit substantially longer times for data compaction operations than for data decompression operations.

Classifications:

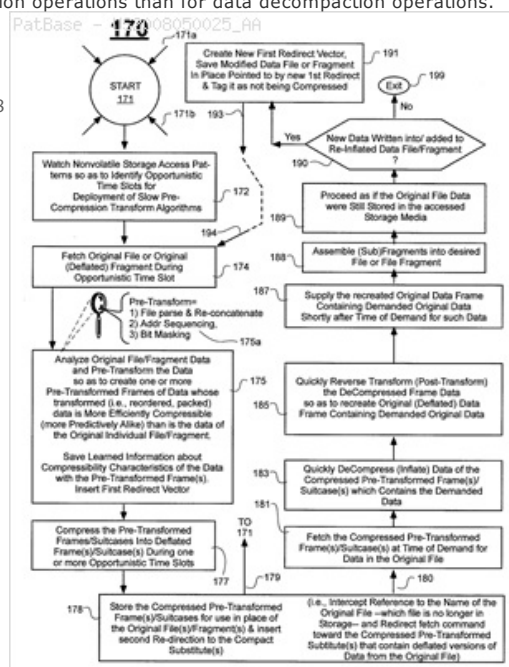
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G06K9/54 G06K9/62 (Advanced/Invention);

G06F17/30 G06F7/06 G06K9/36 G06K9/54 G06K9/62 (Core/Invention)

CPC: G06T9/001 G06T9/004 G06T9/00 H03M7/40 H03M7/30 Y10S707/968
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European: G06F17/30F G06F17/30F7R1 G06T9/00 G06T9/00F
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382/305 382/305P 707/101 707/812 707/968 707/972 707/999.101
707/999.101S 707/E17.002 707/E17.002S



Family:

Publication number	Publication date	Application number	Application date
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US2008050027 AA	20080228	US20070774310	20070706
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US2008152235 AA	20080626	US20070774272	20070706
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Priority:

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US20070774310	20070706	US20070774319	20070706	US20070774333	20070706

Probable Assignee: QUEST SOFTWARE INC

Assignee(s): (std): DELL PRODUCTS LP ; OCARINA NETWORKS INC ; OCARINA NETWORK INC ; RAO GOUTHAM ; GEORGE CARTER ; BASHYAM MURALI ; BRUEGGEMANN ERIC

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OF NEW YORK MELLON TRUST CO NA FIRST LIEN COLLATERAL AGENT AS ; DELL SOFTWARE INC ; DELL USA LP ; FORCE10 NETWORKS INC ; PEROT SYSTEMS CORP ; SECUREWORKS INC ; WYSE TECHNOLOGY LLC ; QUEST SOFTWARE INC ; QUEST SOFTWARE INC F K A DELL SOFTWARE INC ; CREDIT SUISSE CAYMAN ISLANDS BRANCH COLLATERAL AGENT AG AS ; BANK OF NEW YORK MELLON TRUST CO NA NOTES COLLATERAL AGENT AS ; COMPELLANT TECHNOLOGIES INC ; COMPELLENT TECHNOLOGIES INC ; CREDANT TECHNOLOGIES INC ; DELL INC ; DELL MARKETING LP

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2) Family number: 32610462 (US2006018268A)

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Title: SYSTEM AND METHOD FOR IMPROVED POWER EFFICIENCY IN A SHARED RESOURCE NETWORK

Abstract: A system and method for including aggregation control information in an aggregate frame that facilitates enhanced power efficiency is provided. Aggregation control information may include lengths of frames addressed to different stations and/or transmission opportunities to different stations. A receiving station is then able to calculate an offset within the aggregate frame that identifies the position of frames addressed to the receiving station and/or offset when it can use the medium to transmit its data. The receiving station may then enter a sleep mode and awaken at a proper time for using the medium to either receive, or transmit data on the medium. Additionally, aggregation control information may include rate information to facilitate aggregation of multi-rate data in an aggregate frame.

Classifications:

International (IPC 8-9): G06F3/00 G08C17/00 H04B7/005 H04H20/71 H04J3/16 H04L1/16 H04L1/18 H04L12/24 H04L12/28 H04L12/56 H04L29/02 (Advanced/Invention);
G06F3/00 H04B7/005 H04L1/16 H04L12/24 H04L12/28 H04L12/56 H04L29/02 (Core/Invention)

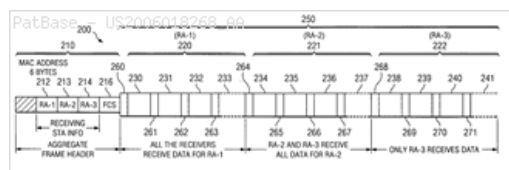
International (IPC 1-7): H04L1/16 H04L1/18 H04L12/56

CPC: H04L1/1685 H04L1/1809 H04W52/0216 H04W28/22 H04L1/0079

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European: H04L1/00F1 H04L1/16F1 H04L1/16F15 H04L1/16F17 H04L1/18C H04L1/18P H04L1/18R H04W12/02H H04W228/06 H04W28/06 T04W12/02E T04W12/02H T04W12/107 T04W228/04 T04W228/06 T04W228/22 T04W252/02 T04W26/02 T04W28/04 T04W28/22 T04W52/02

US: 370/278 370/278P 370/311 370/312 370/389 370/470 370/470S 710/30



Family:

Publication number	Publication date	Application number	Application date
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CN101036348 A	20070912	CN200580027892	20050722
CN101124762 A	20080213	CN200580027874	20050729
DE602005023173 D1	20101007	DE200560023173T	20050722
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IN00736DN2007 A	20070427	IN2007DN00736	20070129
JP2008507916 T2	20080313	JP20070522730T	20050722
JP2008508812 T2	20080321	JP20070523859T	20050729
JP2008508818 T2	20080321	JP20070523890T	20050729
KR20070083497 A	20070824	KR20077004016	20050722
KR20070083516 A	20070824	KR20077004699	20050729
KR20070087547 A	20070828	KR20077004703	20070227
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Priority:

US20040590183 20040722	US20040590183P 20040722	US20040592081P 20040729
US20040592414 20040730	US20040592414P 20040730	US20040605580P 20040830
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Probable Assignee: PROVENANCE ASSET GROUP LLC

Assignee(s): (std): NOKIA CORP ; NOKIA INC ; VANWAES NICO ; SREEMANTHULA SRINIVAS ; SAIFULLAH YOUSUF ; KAKANI NAVEEN KUMAR ; LE KHIEM

Assignee(s): CORTLAND CAPITAL MARKET SERVICES LLC ; NOKIA TECHNOLOGIES OY ; NOKIA USA INC ; PROVENANCE ASSET GROUP LLC

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KUMAR KAKANI

Inventor(s): NICO VANWAES ; KHIEM LE ; KAKANI NAVEEN KUMAR SREEMANTHULA SRINIVAS

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

3) Family number: 28244381 (US2002049861A)

PatBase

Title: CABLE MODEM SYSTEM AND METHOD FOR SUPPORTING PACKET PDU COMPRESSION

Abstract: A cable modem system and method are provided for using a data compression dictionary to transmit compressed payload data in a DOCSIS network while utilizing conventional cable modem termination system (CMTS) equipment. A cable modem system in accordance with the invention includes a cable modem and a CMTS adapted to send and receive compressed payload data. In one example, the cable modem is adapted to compress PDU payload data using a data compression dictionary and the CMTS is adapted to reconstruct the compressed PDU payload data that is received from the cable modem.

Classifications:

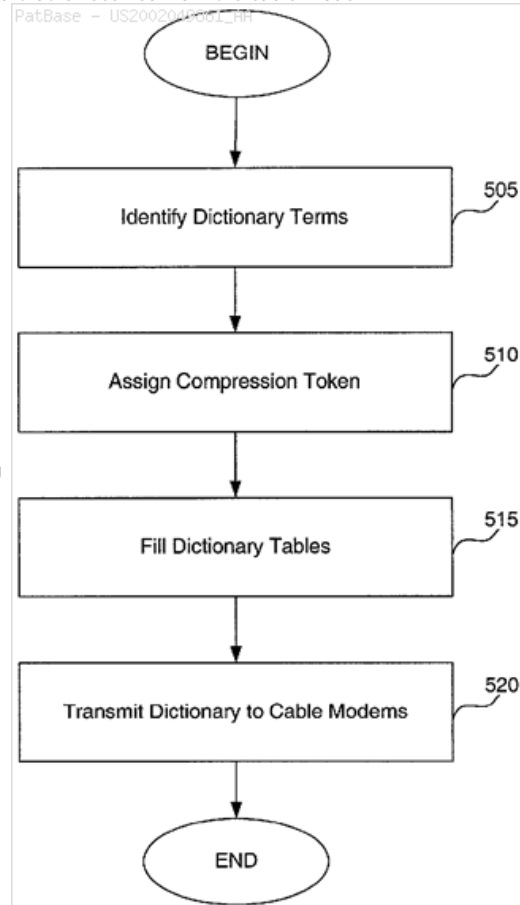
International (IPC 8-9): A01N35/02 B27K3/15 C04B41/48 C04B41/63 E04B1/72 G06F15/16 G06F15/17 G06F15/173 G06F7/00 H03M7/30 H03M7/34 H04B1/66 H04J3/24 H04L12/18 H04L12/28 H04L12/56 H04L29/06 H04L5/16 H04N21/437 H04N21/462 H04N21/4782 H04N21/6332 H04N21/6402 H04N21/643 H04N21/6437 H04N7/173 H04W4/00 (Advanced/Invention); H04N7/16 H04W28/06 (Advanced/Non-invention)

International (IPC 1-7): A01N27/00 A01N35/00 A01N35/02 B27K3/00 B27K3/36 G06F15/16 H03M7/30 H04B1/38 H04B3/00 H04L12/18 H04L12/28 H04L29/00 H04L29/06 H04L5/16 H04M11/00 H04N7/173

CPC: H04N7/17336 H03M7/30 H03M7/3088 H04L12/2801 H04L29/06 H04L29/06027 H04L65/605 H04L65/607 H04L65/608 H04L65/80 H04L69/04 H04L69/16 H04L69/161 H04L69/163 H04L69/22 H04N21/437 H04N21/4622 H04N21/4782 H04N21/6332 H04N21/6402 H04N21/64322 H04N21/6437 H04W28/06 C04B41/009 A01N35/02 B27K3/15 C04B41/48 C04B41/63 C04B2111/2092 C08L61/02 C08L97/02 E04B1/72 Y10T428/4935 Y10T428/662

European: A01N35/02 C04B41/00V C04B41/48 C04B41/63 E04B1/72 H03M7/30 H03M7/30Z2 H04L12/28B H04L29/06 H04L29/06C5 H04L29/06J3 H04L29/06J7 H04N21/437 H04N21/462S H04N21/4782 H04N21/6332 H04N21/6402 H04N21/6437 H04N21/643P H04N7/173B4 H04W28/06 L27K3/15 M04B111/20T M08L61/02 T04L29/06C2 T04L29/06J T04L29/06N T04W12/02H T04W228/06 T04W28/06

US: 1/1 1/1P 341/51 348/E07.073 348/E7.073 348/E70.73S 370/337 370/338 370/338P 370/349 370/395.52 370/395.520P 370/443 370/474 370/477 370/521 370/521S 375/222 375/222P 375/240 375/257 375/257P 428/540 428/541 504/150 504/161 504/348 514/705 707/10 707/999.01 707/999.010S 709/23 709/230 709/230S 709/236 709/236P 709/246 709/246P 709/247 709/247P 709/247S 725/109 725/109S 725/111 725/111P 725/111S 725/114 725/116



Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: AVAGO TECHNOLOGIES LTD

Assignee(s): (std): BROADCOM CORP ; ISP INVEST INC ; BUNN FRED A ; JOHNSON THOMAS L ; WOODS WILLIAM B ; ISP INVESTMENTS INC

Assignee(s): HERCULES INC ; ISP CAPITAL INC ; ISP CHEMICAL PRODUCTS INC ; VERONA INC ; TROY TECHNOLOGY II INC ; CREANOVA INC ; BROADCOM CORP IRVINE ; PRIDE MOBILITY PRODUCTS CORP ; AQUALON CO ; ASHLAND LICENSING AND INTELLECTUAL PROPERTY LLC ; AVAGO TECHNOLOGIES GENERAL IP SINGAPORE PTE LTD ; AVAGO TECHNOLOGIES LTD ; BANK OF AMERICA NA COLLATERAL AGENT AS ; BANK OF NOVA SCOTIA ADMINISTRATIVE AGENT AS

Inventor(s): (std): JOHNSON L ; DANZIG JOEL ; BUNN FRED A ; WOODS WILLIAM B ; JOHNSON THOMAS L ; BUNN A

Inventor(s): JOHNSON THOMAS ; BUNN FRED

Agent(s): STERNE KESSLER GOLDSTEIN AND FOX PLLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW