

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
3 January 2003 (03.01.2003)

PCT

(10) International Publication Number
WO 03/001748 A1

(51) International Patent Classification⁷: **H04L 12/28**,
H03M 7/30

(21) International Application Number: PCT/SG01/00181

(22) International Filing Date:
7 September 2001 (07.09.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
200103814-0 21 June 2001 (21.06.2001) SG

(71) Applicant (for all designated States except US): **ZI-PLABS PTE LTD.** [SG/SG]; No. 66 Loyang Way, Singapore 508756 (SG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **NG, Christopher** [SG/SG]; ZipLabs Pte Ltd., 2 Ang Mio Kio St 64, Ang Mio Kio Industrial Pk 3, 3rd Floor, Econ Building, Singapore 569084 (SG). **GOH, Kay, Pin** [SG/SG]; ZipLabs Pte Ltd., 2 Ang Mio Kio St 64, Ang Mio Kio Industrial Pk 3, 3rd Floor, Econ Building, Singapore 569084 (SG).

(74) Agent: **GREENE-KELLY, James, Patrick**; Lloyd Wise, Tanjong Pagar, P.O. Box 636, Singapore 910816 (SG).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

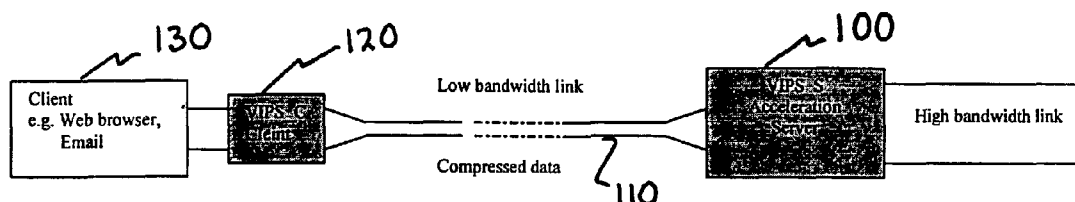
— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND APPARATUS FOR COMPRESSION AND DECOMPRESSION OF DATA



(57) Abstract: A real time compression and decompression client-server architecture over bandwidth limited data communications network uses a client application (120) located between a client (130) and a bandwidth limited network (110) and a server (100) located between the bandwidth limited network (110) and an Internet server to send and receive compressed data in an efficient manner across the bandwidth limited network. The native web object formats at the Internet Server are replaced and transformed at the application to a more efficient lossless or lossy compression format. The client application (130) performs the task of decompressing format. The client application (130) performs the task of decompressing and decrypting the new compressed object format from the bandwidth limited network back to the native web object format.



WO 03/001748 A1