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TECHNICAL CORRIGENDUM 1

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INTERNATIONAL ELECTROTECHNICAL COMMISSION • МЕЖДУНАРОДНАЯ ЭЛЕКТРОТЕХНИЧЕСКАЯ КОМИССИЯ • COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

Information technology — Digital compression and coding of continuous-tone still images —

Part 1:
Requirements and guidelines

TECHNICAL CORRIGENDUM 1: Patent information update

Technologies de l'information — Compression numérique et codage des images fixes de nature photographique —

Partie 1: Prescriptions et lignes directrices

RECTIFICATIF TECHNIQUE 1: Mise à jour des informations relatives aux brevets

Technical Corrigendum 1 to ISO/IEC 10918-1:1994 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information.*

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ITU-T RECOMMENDATION

Information technology – Digital compression and coding of continuous-tone still images – Requirements and guidelines

Technical Corrigendum 1

Patent information update

Replace Annex L text by the following:

Annex L

Patents

(This annex does not form an integral part of this Recommendation | International Standard)

L.1 Introductory remarks

The user's attention is called to the possibility that – for some of the coding processes specified in Annexes F, G, H, and J – compliance with this Specification may require use of an invention covered by patent rights.

By publication of this Specification, no position is taken with respect to the validity of this claim or of any other claimed patent rights in connection therewith. However, for each patent listed in this annex, the patent holder has filed with the Information Technology Task Force (ITTF) of ISO/IEC and the Telecommunication Standardization Bureau (TSB) of the ITU a statement of willingness to grant a licence under these rights on reasonable and non-discriminatory terms and conditions to applicants desiring to obtain such a licence (see the respective ITU-T and ISO IPR policies for details).

In accordance with the IPR policies of ISO/IEC and ITU-T, the criteria for including patents in this annex are:

a) the patent has been identified by someone who is familiar with the technical fields relevant to this Specification, and who believes use of the invention covered by the patent is *required* for implementation of one or more of the coding processes specified in Annexes F, G, H, or J;

b) and the patent-holder has written a letter to the ITTF and TSB, stating willingness to grant a licence to an unlimited number of applicants throughout the world under reasonable terms and conditions that are demonstrably free of any unfair discrimination.

This list of patents shall be updated, if necessary, upon publication of any revisions to this Recommendation | International Standard. For the latest list of the patent statements received by the ITU, please consult http://www.itu.int/, ITU-T databases.

L.2 List of patents

According to L.1, the following patents may be required for implementation of any one of the processes specified in Annexes F, G, H, and J which uses arithmetic coding:

US 4,633,490, December 30, 1986, IBM, MITCHELL (J.L.) and GOERTZEL (G.): *Symmetrical Adaptive Data Compression/Decompression System.*

US 4,652,856, February 4, 1986, IBM, MOHIUDDIN (K.M.) and RISSANEN (J.J.): *A Multiplication-free Multi-Alphabet Arithmetic Code*.

US 4,369,463, January 18, 1983, IBM, ANASTASSIOU (D.) and MITCHELL (J.L.): *Grey Scale Image Compression with Code Words a Function of Image History*.

US 4,749,983, June 7, 1988, IBM, LANGDON (G.): *Compression of Multilevel Signals*.

US 4,935,882, June 19, 1990, IBM, PENNEBAKER (W.B.) and MITCHELL (J.L.): *Probability Adaptation for Arithmetic Coders*.

US 4,905,297, February 27, 1990, IBM, LANGDON (G.G.), Jr., MITCHELL (J.L.), PENNEBAKER (W.B.), and RISSANEN (J.J.): *Arithmetic Coding Encoder and Decoder System*.

US 4,973,961, November 27, 1990, AT&T, CHAMZAS (C.), DUTTWEILER (D.L.): *Method and Apparatus for Carry-over Control in Arithmetic Entropy Coding*.

US 5,025,258, June 18, 1991, AT&T, DUTTWEILER (D.L): *Adaptive Probability Estimator for Entropy Encoding/Decoding*.

US 5,099,440, March 24, 1992, IBM, PENNEBAKER (W.B.) and MITCHELL (J.L.): *Probability Adaptation for Arithmetic Coders*.

Japanese Patent 2128115, February 26, 1990, MEL ONO (F.), KIMURA (T.), YOSHIDA (M.), and KINO (S.): *Coding System*.

The following patent may be required for implementation of any one of the hierarchical processes specified in Annex H when used with a lossless final frame:

US 4,665,436, May 12, 1987, EI OSBORNE (J.A.) and SEIFFERT (C.): *Narrow Bandwidth Signal Transmission*.

No other patents required for implementation of any of the other processes specified in Annexes F, G, H, or J had been identified in the ITU-T IPR database at the time of publication of this Specification.

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