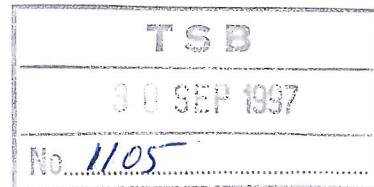




NIPPON TELEGRAPH AND TELEPHONE CORPORATION
20-2 Nishi-shinjuku 3-Chome Shinjuku-ku, Tokyo 163-14 Japan

September 25th, 1997

Mr. Th. Irmer
Director of Telecommunication Standardization Bureau
International Telecommunication Union
Place des Nations
1211 Geneva 20
Switzerland



Re: Patent Licensing Policy

Dear Mr.Th. Irmer:

Nippon Telegraph and Telephone Corporation hereby declares that it is prepared to license its patents, both issued and pending, which are necessary to manufacture and sell implementations of the proposed Recommendation G.729 (Coding of Speech at 8 kbit/s using Conjugate-Structure Algebraic Code-Excited Linear-Prediction (CS-ACELP)). The license will be granted to an unlimited number of applicants throughout the world under reasonable terms and conditions.

We would like to thank you for your organizational activities as Director as ITU for international standards.

Yours sincerely

Hiroshi Nakayama
Hiroshi Nakayama
Executive Manager
Intellectual Property Department

Contact Tel : +81-3-5353-4379
Contact Fax : +81-3-5353-5517
Contact Email : g729license@ipr.hqs.ntt.co.jp

NTT's patent relating to the ITU-T G.729.

Registration Number : USP 4,393,272 (Jul.12,1983)
CA 1157564 (Nov.22,1983), CA 1170370 (Jul.3,1984),
FR 2466826 (Sept.14,1984), DE 3037276 (Aug.1,1985),
DE 3050742 (Jan.15,1987), GB 2059726 (June 27,1983),
GB 2131659 (Dec.12,1984), JP 1226667 (Aug.31,1984),
SE 444730 (Aug.7,1986), NL 189320 (Mar.1,1993)
Patent Title : "Sound Synthesizer"

Registration Number : USP 4,992,508 (May 1,1990)
CA 1311060 (Dec.1,1992), EU 0314018 (Sept.1,1993),
FR 0314018 (Sept.1,1993), GB 0314018 (Sept.1,1993),
DE 0314018 (Sept.1,1993), JP 2061805 (June 10,1996),
SE 0314018 (Sept.1,1993)
Patent Title : "Method and Apparatus for Multiplexed Vector
Quantization"

Registration Number : USP 5,396,576 (Mar.7,1995)
Publication Number : EP (DE,FR,GB) 514912 (June.16,1993)
(Publication with search report)
Patent Title : Speech Coding and Decoding Methods using
Adaptive and Random Codebooks

Publication Number : EP (DE,FR,GB,IT) 577488 (Jan.5,1994)
Patent Title : Speech coding method and apparatus for the
same

Application Number : PCT (US, CA, EU, GB, DE, FR, IT, SE, FI,
AU, KR, SG, CN) 95/01989 (Sept.29, 1995),
Malaysia 9502975 (Oct.5,1995), Thailand 28260 (Oct.4,1995),
Taiwan 841100433 (Oct.4,1995), JP 244128/94 (Oct.7,1994)
Patent Title : Vector Quantizing and Decoding Methods

Registration Number : JP 1494819 (May 16,1989)
Patent Title : Zenkyoukukata degitaru firuta (All-pole
digital filter)

Application Number : JP 5-70534
Patent Title : Onsei hugouka-hou (Speech coding-decoding
method)

Application Number : JP 3-117646
Patent Title : Onsei hugouka-hukugouka-hou (Speech coding-
decoding method)

Application Number : JP 3-167124
Patent Title : Onsei no reisin singou hugouka-hukugouka-hou
(Encoding-decoding method for speech excitation signals)