

LETTER OF ASSURANCE FOR ESSENTIAL PATENTS

VIA U.S. mail Certified Mail with a Return Receipt
 Please return or FAX to: Secretary, IEEE-SA Standards Board Patent Committee
 Institute of Electrical and Electronics Engineers, Inc.
 445 Hoes Lane
 Piscataway, NJ 08855 USA
 FAX (+1 732-562-1571)

No license is implied by submission of this Letter of Assurance

1. PATENT HOLDER/ORGANIZATION:

Legal Name of Organization: Hewlett-Packard Company

2. PATENT HOLDER'S CONTACT FOR LICENSE APPLICATION:

Name & Department: Mikhail Lotvin, Legal Department
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3. IEEE STANDARD or PROPOSED IEEE STANDARD:

Number: IEEE 802.3ab
 Title: Gigabit Ethernet Standard

4. PATENT HOLDER'S POSITION REGARDING LICENSING ESSENTIAL PATENT RIGHTS

If the Patent Holder owns or controls granted patent(s) and/or pending applications that it believes may be infringed by compliance with the Proposed IEEE Standard, please specify the patent number, published application, and/or relevant claims. (A patent search is not required.)

Patent Number(s) (if known): 6,175,865

Relevant Claims (optional): _____

The Patent Holder states that its position with respect to licensing such patent(s) is as follows (*check one box only*):

1. The Patent Holder is prepared to grant a free license to an unrestricted number of applicants on a worldwide, non-discriminatory basis to comply with the [Proposed] IEEE Standard.
2. The Patent Holder is prepared to grant a license to an unrestricted number of applicants on a worldwide, non-discriminatory basis and on reasonable terms and conditions to comply with the [Proposed] IEEE Standard.
3. The Patent Holder is unwilling to grant licenses according to the provisions of either 1 or 2 above.

Note: The Patent Holder is not deemed to discriminate for denying a license based on pending or ongoing patent litigation with an applicant. It is not deemed unreasonable for the Patent Holder to include a reciprocity requirement within the license.

4. I am not aware of any patent(s) and/or patent claim(s) that my company may hold that would be relevant to the subject matter of the [Proposed] Standard

5. SIGNATURE

Print name of authorized person: Douglas M. Gilbert

Title of authorized person: Managing Counsel

Signature of authorized person:  Date: June 3, 2002

Note: This assurance applies from the date of the standard's approval to the date of the standard's withdrawal and is irrevocable during that period.