UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE EXTENDING PATENT TERM
UNDER 35 U.S.C. § 156

PATENT NO. : 4,689,339
ISSUED : August 25, 1987
INVENTOR(S) : Arto J. Karjalainen et al.
PATENT OWNER : Orion-Yhtymä Oy

This is to certify that there has been presented to the

COMMISSIONER OF PATENTS AND TRADEMARKS

an application under 35 U.S.C. § 156 for an extension of the patent term. Since it
appears that the requirements of the law have been met, this certificate extends the term of
the patent for the period of

1,719 days

from November 21, 2005, the original expiration date of the patent, subject to the
provisions of 35 U.S.C. § 41(b), with all rights pertaining thereto as provided by

I have caused the seal of the Patent and Trademark
Office to be affixed this 15th day of July 1998.

Bruce A. Lehman
Assistant Secretary of Commerce and
Commissioner of Patents and Trademarks