

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Olli MARTIKAINEN</td> <td>12/03/1992</td> </tr> <tr> <td>Pertti RAATIKAINEN</td> <td>11/27/1992</td> </tr> <tr> <td>Marko SUOKNUUTTI</td> <td>12/14/1992</td> </tr> <tr> <td>Juha ZIDBECK</td> <td>11/27/1992</td> </tr> </tbody> </table>		Name	Execution Date	Olli MARTIKAINEN	12/03/1992	Pertti RAATIKAINEN	11/27/1992	Marko SUOKNUUTTI	12/14/1992	Juha ZIDBECK	11/27/1992
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Postal Code:	SF-02150										
PROPERTY NUMBERS Total: 1											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Patent Number:</td> <td>5444700</td> </tr> </tbody> </table>		Property Type	Number	Patent Number:	5444700						
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**PATENT
 REEL: 019843 FRAME: 0582**

ASSIGNMENT

50127 US

- (1) MARTIKAINEN, Olli
- (2) RAATIKAINEN, Pertti
- (3) SUOKNUUTTI, Marko
- (4) ZIDBECK, Juha

(1-4) Insert Name(s) of Inventor(s)

In consideration of the sum of one dollar (\$1.00), and other good and valuable considerations paid to each of the undersigned, each of the undersigned assigns, transfers and sets over to

(5) Insert Name of Assignee

(5) VALTION TEKILLINEN TUTKIMUSKESKUS
Vuorimiehentie 5, SF-02150 Espoo, Finland

(6) Insert Address of Assignee

(6) of

(hereinafter designated as the Assignee), its successors and assigns, the entire right, title and interest for the United States, its territories, dependencies and possessions, in and to the invention known as

(7) Insert Identification of Invention, such as Title, Case Number or Foreign Application Number

(7) SWITCHING ELEMENT AND METHOD FOR CONTROLLING THE SAME (PCT/FI91/00192)

for which the undersigned has (have) executed an application for patent in the United States of America

(8) Insert Date of Signing of Application

(8) on 3 Dec. 1992; 27 Nov. 1992; 14 Dec. 1992 and 27 Nov. 1992 and assigns, transfers and sets over to Assignee the entire right, title and interest in and to said application for patent in the United States of America and any patents, original, reissue, substitute or extension, which may issue therefrom.

- 1) The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.
- 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
- 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.
- 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.
- 6) The undersigned hereby grant(s) Martin Fleit; Harvey B. Jacobson, Jr.; Ronald D. Cohn; or D. Douglas Price (Registration Nos. 16,900, 20,851, 25,203, and 24,514, respectively) the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 3 Dec 1992 Name of Inventor Olli Martikainen (SEAL)

Date 27 Nov. 1992 Name of Inventor Pertti Raatikainen (SEAL)

Date 14 Dec 1992 Name of Inventor Marko Suoknuutti (SEAL)

Date 27 Nov. 1992 Name of Inventor Juha Zidbeck (SEAL)

This assignment should preferably be signed before a United States Consul. If not, then the execution by the inventor(s) should be witnessed by at least two witnesses who sign here:

Witness Martha Sam L

Witness M. M.

The above assigned invention may be more particularly identified as follows:

U. S. Application Serial No. _____ Filing Date _____

Title of Invention _____

U.S. Patent No. _____