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U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

102028824

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Kurt Weingarten 01/18/2002 Gabriel J. Spuehler 01/23/2002 Ursula Keller 01/21/2002 Lukas Krainer 01/21/2001

2.28.02

2. Name and address of receiving party(ies) Name: GigaTera AG Internal Address:

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Other

Street Address: Lerzenstrasse 16 CH-8953 Dietikon, Switzerland

City: State: Zip:

Execution Date:

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) 10/016,530

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: David E. Spaw

Internal Address: Rankin, Hill, Porter & Clark LLP

Street Address: 925 Euclid Avenue, Suite 700

City: Cleveland State: Ohio Zip: 44115

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

Enclosed Authorized to be charged to deposit account

8. Deposit account number:

18-0160

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

David E. Spaw Name of Person Signing

Signature

02/11/2002 Date

Total number of pages including cover sheet, attachments, and documents: 4

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

03/21/2002 LMUELLER 00000282 10016530

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ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in

SEMICONDUCTOR SATURABLE ABSORBER MIRROR

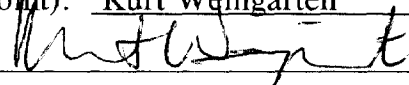


that are the subject of an application for a U.S. Patent, (Application Number 10/016,530, filed December 10, 2001), which application is further identified as Rankin, Hill, Porter & Clark LLP Docket No. FRR-12812.

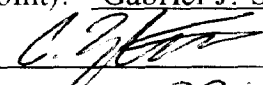
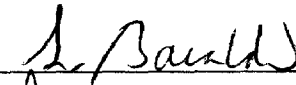
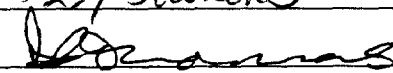
WHEREAS, GigaTera AG, a corporation of Switzerland, and having a place of business at Lerzenstrasse 16, CH-8953 Dietikon, Switzerland, hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

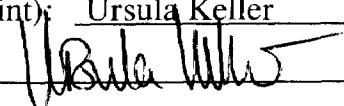

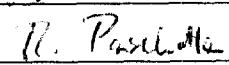
NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventor's certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

The undersigned hereby grants the firm of Rankin, Hill, Porter & Clark LLP 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 and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

(1) Inventor Name (joint): Kurt Weingarten
Signature: X 
Today's Date : X 18-JAN-02
Witness: X 
Witness: X 

(2) Inventor Name (joint): Gabriel J. Spuehler
Signature: X 
Today's Date : X 23.1.2002
Witness: X 
Witness: X 

(3) Inventor Name (joint): Ursula Keller
Signature: X 
Today's Date : X 21. Jan. 2002
Witness: X 
Witness: X 

(4) Inventor Name (joint): Lukas Krainer

Signature: Lukas Krainer

Today's Date : 21. Dec. 2002

Witness: B. Ehring

Witness: Kirk Selig