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12-20-1999



101226254

Docket No.: 14663/11

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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

1. Name of conveying party(ies):

Jenoptik Technologie GmbH

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Execution Date: **September 30, 1999**

2. Name and address of receiving party(ies)

Name: **Brooks Automation GmbH**

Address: **Goeschwitzer Strasse 25**

D-07745

City: **Jena**

State/Prov.:

Country: **Germany**

ZIP

Additional name(s) & address(es)

☐ Yes ☒ No

4. Application number(s) or registration numbers(s):

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

Patent Application No.

Filing date

B. Patent No.(s)

5,575,372

5,655,869

5,715,929

5,636,724

Additional numbers

☐ Yes ☒ No

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

Name: **Mark S. Leonardo, Esq.**

Registration No. **41,433**

Address: **Box 1P, 18th Floor**

Brown, Rudnick, Freed & Gesmer, P.C.

One Financial Center

City: **Boston**

State/Prov.: **MA**

Country: **02111**

ZIP:

6. Total number of applications and patents involved:

4

7. Total fee (37 CFR 3.41): \$ **160.00**

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☐ Authorized to be charged to deposit account

8. Deposit account number:

50-0369

DO NOT USE THIS SPACE

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.

Mark S. Leonardo (41,433)

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and

21

PATENT

REEL: 010437 FRAME: 0415

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DEC - 2 AM 11: 02
U.S. DEPT. OF COMMERCE
PATENT & TRADEMARK OFFICE

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2/20/1999 11:01
41 FD-501

PATENT AND PATENT APPLICATION ASSIGNMENT

PATENT AND PATENT APPLICATION ASSIGNMENT (hereinafter referred to as "Assignment") effective the 30th day of September, 1999 between JENOPTIK AG, JENOPTIK GmbH and JENOPTIK Technologie GmbH (hereinafter collectively referred to as "Assignor") and BROOKS AUTOMATION GmbH (hereinafter referred to as "Assignee").

RECITALS

WHEREAS, Assignor and Assignee are this date parties to a certain Master Purchase Agreement (hereinafter referred to as "Agreement"), under which Assignor agrees to sell, and Assignee agrees to purchase, certain assets owned by Assignor (hereinafter referred to as the "Business"); and

WHEREAS, included among the assets to be purchased by Assignee are certain patents and patent applications (hereinafter referred to as "Patents"), including without limitation certain Patents set forth in Exhibit A attached hereto; and

WHEREAS, Assignee is this date purchasing the Business as a going concern subject to and in accordance with the terms of the Agreement.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by Assignor, Assignor hereby agrees as follows:

1. Definitions. Terms not otherwise defined in this Assignment shall have the same respective meanings ascribed to them in the Agreement.

2. Assignment.

(a) Assignor hereby sells, assigns and transfers to Assignee, its successors, assigns and legal representatives, Assignor's entire right, title and interest for all countries in and to: (i) each of the Patents; (ii) any and all of the inventions which are disclosed and claimed in the Patents; (iii) any and all of the inventions which are disclosed but not claimed in any of the Patents; (iv) all divisional, continuing, substitute, renewal, reissue, and all other patents and applications for United States Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of the inventions disclosed in any of the Patents; and (v) all original and reissued patents or related foreign documents which have been or shall be issued on any such inventions.

(b) Assignor authorizes and requests the Commissioner of Patents of the United States to issue to the Assignee, its successors, assigns and legal representatives, in accordance with this Assignment, any and all United States Letters Patent on the inventions or any of them disclosed in any of the Patents.

(c) Assignor authorizes and agrees that the Assignee may apply for and receive foreign Letters Patent or rights of any other kind for the inventions described in this Section 2, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the Patents under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international agreement; and that, when requested, without charge to (provided, the Assignor shall not be required to incur any out of pocket costs), but at the expense of, the Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all such inventions; execute all rightful oaths, agreements, powers of attorney and other papers; communicate to the Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings (provided, the Assignor shall not be required to incur any out of pocket costs), and generally do everything possible which the Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on such inventions, in the Assignee, its successors, assigns and legal representatives.

IN WITNESS WHEREOF, the Assignor has caused this Assignment to be executed as a sealed instrument as of the date below by its officer thereunto duly authorized.

ASSIGNEE:

BROOKS AUTOMATION GmbH.

By: [Signature]

Name:

Title:

Date: _____

ASSIGNOR:

JENOPTIK AG

By: [Signature]

Name:

Title:

Date: _____

JENOPTIK GmbH

By: [Signature]

Name:

Title:

Date: _____

JENOPTIK Technologie GmbH

By: [Signature]

Name:

Title:

Date: _____

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF SUFFOLK

In said County and State, before me this 30th day of September, 1999, personally appeared A. von Witzleben, of Jenoptik AG, Jenoptik GmbH and Jenoptik Technologie GmbH, known to me to be the person whose name is subscribed to the foregoing assignment and he acknowledged that he executed the same as an officer of Jenoptik AG, Jenoptik GmbH and Jenoptik Technologie GmbH as a free act and deed for the purposes therein contained.

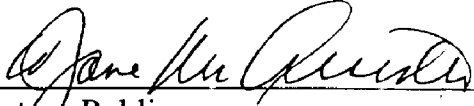
[Signature]

Notary Public

My commission expires: 2/3/2006

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF SUFFOLK

In said County and State, before me this 30th day of September, 1999, personally appeared Dr. Merve Finke, of Jenoptik AG, Jenoptik GmbH and Jenoptik Technologie GmbH, known to me to be the person whose name is subscribed to the foregoing assignment and she acknowledged that she executed the same as an agent of Jenoptik AG, Jenoptik GmbH and Jenoptik Technologie GmbH as a free act and deed for the purposes therein contained.



Notary Public
My commission expires: 2/3/2006

Acknowledged and agreed to as of this ____ day of September, 1999.

BROOKS AUTOMATION GmbH

Witness: _____

By: Ellen B. Richstone

Exhibit A

1.

Country: Germany
German Title: Einrichtung zur Indexierung von Magazinfächern eines Magazins und darin enthaltenen scheibenförmigen Objekten
English Title: Device for Indexing Magazine Compartments and Wafer-shaped Objects in the Compartments
Filed: 5-Mar-1993
Published/Granted: 1-Jun-1994
Appl. No.: P 43 06 957.6-33
Patent No.: 43 06 957 C1
Assignee: JENOPTIK AG

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/ Patent No.	Assignee at Filing/Issue
USA	Granted	3-Mar-1994	25-Feb-1997	08/331523	5,605,428	JENOPTIK AG
South Korea	Granted	3-Mar-1994	22-Jul-1998	703853/499	156,481	JENOPTIK GmbH
Great Britain	Granted	3-Mar-1994	23-Dec-1998	703853/199	0 639 293 B1	JENOPTIK AG
France	Granted	3-Mar-1994	23-Dec-1998	94909106.0-2201	0 639 293 B1	JENOPTIK AG
Japan	Published	3-Mar-1994	27-Jul-1995	06-519 567	7,506,940	JENOPTIK GmbH
Singapore	Published	3-Mar-1994	20-Feb-1998	9606402-7	46,592	JENOPTIK Aktiengesellschaft
Taiwan	Granted	28-Feb-1994	14-May-1999	83101720	98,956	JENOPTIK GmbH

2.

Country: Germany
German Title: Einrichtung zum Handeln von scheibenförmigen Objekten in einer Handlingebene eines lokalen Reinraums
English Title: Device for Handling Disk-shaped Objects in a Handling Plane of a Local Clean Room
Filed: 29-Mar-1993
Published/Granted: 2-May-1996
Appl. No.: P 43 10 149.6-22
Patent No.: 43 10 149 C2
Assignee: JENOPTIK AG

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Patent No.	Assignee at Filing/Issue
USA	Granted	3-Jun-1996	1-Jul-1997	08/656698	5,642,978	JENOPTIK GmbH
Germany (EP)	Granted	25-Mar-1994	3-Jun-1998	94 911 956.4	0 642 697 B1	JENOPTIK AG
Japan	Granted	25-Mar-1994	30-Oct-1998	06-521651	2,846,957	JENOPTIK GmbH

3.
Country: Germany
German Title: Transportvorrichtung für Magazine zur Aufnahme scheibenförmiger Objekte
English Title: Device for Transporting Magazines for M(H)olding Wafer-shaped Objects
Filed: 5-Aug-1993
Published/Granted: 20-Oct-1994
Appl. No.: P 43 26 308.9-33
Patent No.: 43 26 308 C1
Assignee: JENOPTIK AG

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Pa tent No.	Assignee at Filing/Issue
Taiwan	Granted	29-Jul-1994	21-Jul-1995	83 106 944	72,225	JENOPTIK GmbH
USA	Granted	25-Jul-1994	19-Nov-1996	08/411721	5,575,081	JENOPTIK GmbH
Germany (EP)	Granted	25-Jul-1994	14-Oct-1998	94 925 386.8-2203	0 664 049 B1	JENOPTIK AG
France	Granted	25-Jul-1994	14-Oct-1998	94 925 386.8-2203	0 664 049 B1	JENOPTIK AG

4.
Country: Germany
German Title: Vorrichtung zum Transport von Wafermagazinen
English Title: Device for Transporting Wafer Magazines
Filed: 5-Aug-1993
Published/Granted: 15-Sep-1994
Appl. No.: P 43 26 309.7-33
Patent No.: 43 26 309 C1
Assignee: JENOPTIK AG

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Pa tent No.	Assignee at Filing/Issue
Taiwan	Granted	30-Jul-1994	11-Nov-1996	85211070	117,700	JENOPTIK GmbH
USA	Granted	25-Jul-1994	11-Feb-1997	08/406976	5,601,484	JENOPTIK AG
Germany (EP)	Granted	25-Jul-1994	14-Oct-1998	94 925 387.6-2203	0 664 050 B1	JENOPTIK Aktiengesellschaft
Great Britain	Granted	25-Jul-1994	14-Oct-1998	94 925 387.6-2203	0 664 050 B1	JENOPTIK Aktiengesellschaft
France	Granted	25-Jul-1994	14-Oct-1998	94 925 387.6-2203	0 664 050 B1	JENOPTIK Aktiengesellschaft
Netherlands	Granted	25-Jul-1994	14-Oct-1998	94 925 387.6-2203	0 664 050 B1	JENOPTIK Aktiengesellschaft

5.
 Country: Germany
 German Title: Einrichtung zur Vermeidung des Scherens oder Quetschens eines Fremdkörpers
 English Title: Device for Preventing Shearing or Pinching of a Foreign Object
 Filed: 10-Nov-1994
 Published/Granted: 20-Mar-1995
 Appl. No.: P 44 21 828.1
 Patent No.: N/A
 Assignee: N/A
 Status: Rejected

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Patent No.	Assignee at Filing/Issue
USA	Granted	15-Dec-1994	19-Nov-1996	08/356457	5,575,372	JENOPTIK Technologie GmbH
Taiwan	Granted	25-Nov-1994	28-Nov-1997	86202682	126,839	JENOPTIK Technologie GmbH
South Korea	Granted	30-Nov-1994	6-Jul-1998	94-32204	153,554	JENOPTIK Technologie GmbH
Germany (EP)	Published	10-Nov-1994	27-Dec-1995	94 117 763.6	688,998	JENOPTIK Technologie GmbH
Great Britain	Published	10-Nov-1994	27-Dec-1995	95 117 763.6	688,998	JENOPTIK Technologie GmbH
France	Published	10-Nov-1994	27-Dec-1995	96 117 763.6	688,998	JENOPTIK Technologie GmbH
Netherlands	Published	10-Nov-1994	27-Dec-1995	97 117 763.6	688,998	JENOPTIK Technologie GmbH

6.
 Country: Germany
 German Title: Einrichtung zur Kopplung von Be- und Entladegeräten mit Halbleiterbearbeitungsmaschinen
 English Title: Device for Coupling Loading and Unloading Devices with Semiconductor Processing Machines
 Filed: 16-Jul-1994
 Published/Granted: 9-May-1996
 Appl. No.: P 44 25 208.0-33
 Patent No.: 44 25 208 C2
 Assignee: JENOPTIK AG

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Patent No.	Assignee at Filing/Issue
Japan	Granted	31-Mar-1995	18-Jul-1997	7-76189	2,674,968	JENOPTIK Technologie GmbH
USA	Granted	28-Apr-1995	12-Aug-1997	08/430816	5,655,869	JENOPTIK Technologie GmbH

Singapore	Granted	31-May-1995	17-Oct-1997	9500561-7	34,984	JENOPTIK Technologie GmbH
Taiwan	Granted	7-Dec-1994	30-Nov-1998	83 111 388	96,011	JENOPTIK Technologie GmbH
Great Britain	Published	28-Nov-1994	14-Feb-1996	94 118 6 99.1	696,817	JENOPTIK Technologie GmbH
France	Published	28-Nov-1994	14-Feb-1996	94 118 6 99.1	696,817	JENOPTIK Technologie GmbH
South Korea	Filed	21-Jun-1995		16673/1995		JENOPTIK Technologie GmbH

7.

Country: Germany
German Title: Beschickungseinrichtung für Halbleiterbearbeitungsanlagen
English Title: Charging Device for Semiconductor Processing Installations
Filed: 31-Aug-1994
Published/Granted: 22-Feb-1996
Appl. No.: P 44 30 844.2-22
Patent No.: 44 30 844 C1
Assignee: JENOPTIK AG

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Pa tent No.	Assignee at Filing/Issue
Taiwan	Granted	28-Jan-1995	4-Jul-1997	84 100 863	84,826	JENOPTIK Technologie GmbH
Japan	Granted	19-May-1995	12-Jul-1996	7-121750	2,703,740	JENOPTIK Technologie GmbH
USA	Granted	28-Apr-1995	10-Feb-1998	08/430407	5,715,929	JENOPTIK Technologie GmbH
Singapore	Granted	20-Jun-1995	20-Jul-1998	9500693-8	42,758	JENOPTIK Technologie GmbH
South Korea	Granted	31-Jul-1995	30-Oct-1998	23475/1995	173,521	JENOPTIK Technologie GmbH
Germany (EP)	Published	3-Mar-1995	6-Mar-1996	95 103 066.7	700,076	JENOPTIK Technologie GmbH
Great Britain	Published	3-Mar-1995	6-Mar-1996	95 103 066.7	700,076	JENOPTIK Technologie GmbH
France	Published	3-Mar-1995	6-Mar-1996	95 103 066.7	700,076	JENOPTIK Technologie GmbH

8.
Country: Germany
German Title: Einrichtung zur Umsetzung eines Transportobjektes zwischen zwei Endlagen
English Title: Device for Transferring a Transport Object between two End Positions
Filed: 31-Aug-1994
Published/Granted: 10-Apr-1997
Appl. No.: P 44 30 846.9-22
Patent No.: 44 30 846 C2
Assignee: JENOPTIK Aktiengesellschaft

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Patent No.	Assignee at Filing/Issue
USA	Granted	1-Mar-1995	10-Jun-1997	08/396673	5,636,724	JENOPTIK Technologie GmbH
Singapore	Granted	20-Jun-1995	14-Jun-1997	9500695-3	32,371	JENOPTIK Technologie GmbH
Japan	Granted	19-May-1995	3-Oct-1997	7-121749	2,703,739	JENOPTIK Technologie GmbH
Taiwan	abandoned	27-Jan-1995		84100748		JENOPTIK Technologie GmbH
Taiwan	utility model Granted	27-Jan-1995	13-Oct-1998	86204759	136,418	JENOPTIK Technologie GmbH
Germany (EP)	Published	31-Jan-1995	6-Mar-1996	95 101 313.5	700,075	JENOPTIK Technologie GmbH
France	Published	31-Jan-1995	6-Mar-1996	95 101 313.5	700,075	JENOPTIK Technologie GmbH

9.
Country: Germany
German Title: Einrichtung zur Ver- und Entriegelung einer Tür eines Behälters
English Title: Arrangement for Locking and Unlocking a door of a Container
Filed: 22-Sep-1995
Published/Granted: 27-Mar-1997
Appl. No.: 195 35 178.9-27
Publication No.: 195 35 178 A1
Assignee: JENOPTIK Aktiengesellschaft
Status: Published

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Patent No.	Assignee at Filing/Issue
Japan	Granted	23-May-1996	15-May-1998	8-128 360	2,781,169	JENOPTIK Aktiengesellschaft
Germany (EP)	Published	16-Apr-1996	26-Mar-1997	96 105 969.8	764,971	JENOPTIK Aktiengesellschaft
Great Britain	Published	16-Apr-1996	26-Mar-1997	96 105 969.8	764,971	JENOPTIK Aktiengesellschaft
France	Published	16-Apr-1996	26-Mar-1997	96 105 969.8	764,971	JENOPTIK

USA	Abandoned (See below)	17-May-1996		08/649263		Aktiengesellschaft JENOPTIK
USA	Continuation Filed	17-Nov-1998		08/649263		Aktiengesellschaft JENOPTIK
Taiwan	Granted	26-Apr-1996	5-Jun-1999	85 104 998	100,852	Aktiengesellschaft JENOPTIK
South Korea	Filed	4-Jun-1996		19835/1996		Aktiengesellschaft JENOPTIK
Singapore	Published	14-May-1996	28-Sep-1998	96 097 97-7	52,801	Aktiengesellschaft JENOPTIK

10.

Country: Germany
German Title: Indexer für Magazinfächer eines Magazins und darin enthaltene scheibenförmige Objekte
English Title: Indexer for Magazine Shelves of a Magazine and Wafer-shaped Objects
Filed: 27-Sep-1995
Published/Granted: 10-Apr-1997
Appl. No.: 195 35 871.6-22
Publication No.: 195 35 871 A1
Assignee: JENOPTIK Aktiengesellschaft
Status: Published

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Pa tent No.	Assignee at Filing/Issue
Japan	Granted	15-Jul-1996	4-Sep-1998	8-184500	2,824,421	JENOPTIK Aktiengesellschaft
USA	Submitted	26-Jul-1996		08/687643		JENOPTIK Aktiengesellschaft
Germany (EP)	Published	15-May-1996	2-Apr-1997	96 107 816.9	766,287	JENOPTIK Aktiengesellschaft
Great Britain	Published	15-May-1996	2-Apr-1997	96 107 816.9	766,287	JENOPTIK Aktiengesellschaft
France	Published	15-May-1996	2-Apr-1997	96 107 816.9	766,287	JENOPTIK Aktiengesellschaft

Country: Germany
German Title: Einrichtung zur Erzeugung eines gereinigten, turbulenzarmen Luftstromes zur Versorgung lokaler Reinnräume
English Title: Arrangement for Generating a Purified, Low-turbulence Air Flow for Supplying Local Clean Rooms
Filed: 13-Oct-1995
Published/Granted: 13-Aug-1998
Appl. No.: 195 38 040.1-16
Patent No.: 195 38 040 C2
Assignee: JENOPTIK Aktiengesellschaft

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Patent No.	Assignee at Filing/Issue
USA	Granted	13-Jun-1996	29-Sep-1998	08/663486	5,814,116	JENOPTIK Aktiengesellschaft
Germany (EP)	Published	7-May-1996	16-Apr-1997	96 107 219.6	768,498	JENOPTIK Aktiengesellschaft
Japan	Published	7-Jun-1996	16-May-1997	10-1079	9126 511	JENOPTIK Aktiengesellschaft
Taiwan	Rejected	23-May-1996		85 106 098		JENOPTIK AG

Country: Germany
German Title: Transportbehälter für scheibenförmige Objekte
English Title: Transport Container for Wafer-shaped Objects
Filed: 3-Nov-1995
Published/Granted: 7-May-1997
Appl. No.: 195 40 963.9-27
Publication No.: 195 40 963 A1
Assignee: JENOPTIK Aktiengesellschaft
Status: Published

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Patent No.	Assignee at Filing/Issue
Taiwan	Granted	23-May-1996	24-May-1997	85 106 097	83,751	JENOPTIK Aktiengesellschaft
USA	Granted	13-Jun-1996	9-Sep-1997	08/663485	5,664,679	JENOPTIK Aktiengesellschaft
Japan	Granted	4-Jun-1996	16-Oct-1998	8-141 481	2,840,057	JENOPTIK Aktiengesellschaft
Germany (EP)	Published	7-May-1996	7-May-1997	96 107 218.8	772,228	JENOPTIK Aktiengesellschaft
Great Britain	Published	7-May-1996	7-May-1997	96 107 218.8	772,228	JENOPTIK Aktiengesellschaft

France	Published	7-May-1996	7-May-1997	96 107 218.8	772,228	JENOPTIK Aktiengesellschaft
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13.

Country: Germany
German Title: Be- und Entladestation für Halbleiterbearbeitungsanlagen
English Title: Loading and Unloading Station for Semiconductor Processing Installations
Filed: 15-Nov-1995
Published/Granted: 2-Oct-1996
Appl. No.: 195 42 646.0-33
Publication No.: 195 42 646 A1
Assignee: JENOPTIK Aktiengesellschaft
Status: Published

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Patent No.	Assignee at Filing/Issue
USA	Granted	14-Mar-1996	30-Jun-1998	08/615386	5,772,386	JENOPTIK Aktiengesellschaft
USA	Pending	15-Jan-1998	N/A	09/003,025	N/A	JENOPTIK Aktiengesellschaft
Germany (EP)	Published	7-Feb-1996	2-Oct-1996	96 101 758.9	735,573	JENOPTIK Aktiengesellschaft
Great Britain	Published	7-Feb-1996	2-Oct-1996	96 101 758.9	735,573	JENOPTIK Aktiengesellschaft
France	Published	7-Feb-1996	2-Oct-1996	96 101 758.9	735,573	JENOPTIK Aktiengesellschaft
Italy	Published	7-Feb-1996	2-Oct-1996	96 101 758.9	735,573	JENOPTIK Aktiengesellschaft
Switzerland	Published	7-Feb-1996	2-Oct-1996	96 101 758.9	735,573	JENOPTIK Aktiengesellschaft
Netherlands	Published	7-Feb-1996	2-Oct-1996	96 101 758.9	735,573	JENOPTIK Aktiengesellschaft
Japan	Published	25-Mar-1996	22-Oct-1996	8-68465	8,279,546	JENOPTIK Aktiengesellschaft
Taiwan	Granted	15-Feb-1996	18-Mar-1999	85 101 887	0 98290	JENOPTIK Aktiengesellschaft
South Korea	Filed	22-Mar-1996		7836.1996		JENOPTIK Aktiengesellschaft
Singapore	Published	27-Mar-1996	21-Dec-1998	9606296-3	55 102	JENOPTIK Aktiengesellschaft

14.
Country: Germany
German Title: Einrichtung zur Handhabung von scheibenförmigen Objekten
English Title: Arrangement for Handling Wafer-shaped Objects
Filed: 28-Dec-1995
Published/Granted: 5-Jun-1997
Appl. No.: 195 49 045.2-22
Patent No.: 195 49 045 C1
Assignee: JENOPTIK Aktiengesellschaft

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Patent No.	Assignee at Filing/Issue
USA	Granted	13-Jun-1996	15-Sep-1998	08/663487	5,807,062	JENOPTIK Aktiengesellschaft

15.
Country: Germany
German Title: Einrichtung zur Verstellung eines Aufnahmeelementes in einem Reinraum
English title: Receiver Element Adjusting Device for Clean Room, e.g., Semiconductor Guiding Circuit
Filed: 27-Mar-1996
Published/Granted: 13-Aug-1998
Appl. No.: 196 12 114.0-16
Patent No.: 196 12 114 C2
Assignee: JENOPTIK Aktiengesellschaft

16.
Country: Germany
German Title: Einrichtung und Verfahren zur Erkennung von scheibenförmigen Objekten und Fächern in einem Behälter
English Title: Device and Method for Sensing Wafer-Shaped Objects and Shelves in a Container
Filed: 3-Jul-1997
Published/Granted: 7-Jan-1999
Appl. No.: 197 28 478.7
Publication No.: 197 28 478 A1
Assignee: JENOPTIK Aktiengesellschaft
Status: Published

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Patent No.	Assignee at Filing/Issue
USA	Filed	26-Aug-1997		08/918860		JENOPTIK Aktiengesellschaft
Great Britain	Filed	22-Sep-1997		97 201 43.8		JENOPTIK Aktiengesellschaft
France	Filed	29-Aug-1997		97 107 91		JENOPTIK Aktiengesellschaft

Japan	Published	23-Oct-1997	12-Feb-1999	9-290805	11-40651	JENOPTIK Aktiengesellschaft
Taiwan	Filed	22-Sep-1997		86 113 739		JENOPTIK Aktiengesellschaft
South Korea	Granted	8-Oct-1997	12-Jun-1999	51526/1997	0 218898	JENOPTIK Aktiengesellschaft
Singapore	Published	16-Sep-1997	22-Feb-1999	97 034 22-7	60,116	JENOPTIK Aktiengesellschaft

17.

Country: USA
English Title: Device for the Transport of Objects to a Destination
Filed: 25-Nov-1997
Published/Granted: N/A
Appl. No.: 08/977588
Patent No.: N/A
Assignee: JENOPTIK Aktiengesellschaft
Status: Pending/Submitted

18.

Country: Germany
German Title: Einrichtung und Verfahren zur Erkennung und Unterscheidung von fächerbildenden
Auflagen in Kassetten und darauf abgelegten scheibenförmigen Objekten
English Title: Device and Method for Detecting and Distinguishing Shelf-forming Supports in
Cassettes and Disk-shaped Objects Deposited Thereon
Filed: 27-Nov-1997
Published/Granted: N/A
Appl. No.: 197 52 510.5-52
Patent No.: 197 52 510.5-52
Assignee: JENOPTIK Aktiengesellschaft
Status: Filed/Pending

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Pa tent No.	Assignee at Filing/Issue
USA	Filed	2-Nov-1998		09/184562		JENOPTIK Aktiengesellschaft
Great Britain	Published	19-Aug-1998	9-Jun-1999	98 18 134.0	2 332 057	JENOPTIK Aktiengesellschaft
France	Filed	24-Jul-1998		98 09460		JENOPTIK Aktiengesellschaft
Japan	Published	20-Aug-1998	2-Jul-1999	10-234227	11-176913	JENOPTIK Aktiengesellschaft
Taiwan	Published	3-Aug-1998	21-Jun-1999	87 112 737	362 148	JENOPTIK Aktiengesellschaft
South Korea	Filed	26-Aug-1998		98-34638		JENOPTIK Aktiengesellschaft
Singapore	Filed	24-Aug-1998		98 03279-0		JENOPTIK Aktiengesellschaft

19.
Country: USA
Appl. No.: 60/069033
Patent No.: N/A
Assignee: JENOPTIK Aktiengesellschaft
Status: Abandoned

20.
Country: USA
English Title: Integrated Material Management Module
Filed: 9-Dec-1998
Published/Granted: N/A
Appl. No.: 09/207957 (9-Dec-1998)
Patent No.: N/A
Assignee: JENOPTIK Aktiengesellschaft
Status: Pending

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Pat ent No.	Assignee at Filing/Issue
WO Europe Japan South Korea Singapore	Filed	10-Dec-1998				JENOPTIK Aktiengesellschaft
TW	Filed	6-Mar-1999		87 120 743		JENOPTIK Aktiengesellschaft

21.
Country: USA
German Title: Einrichtung zum Andocken eines beweglichen Objektes an einem Bestimmungsort
English Title: Device for Securing a Moving Object at a Destination
Filed: 26-Nov-1997
Published/Granted: N/A
Appl. No.: 08/979522
Patent No.: N/A
Assignee: JENOPTIK Aktiengesellschaft
Status: Pending/Submitted

22.

Country: Germany
 German Title: Einrichtung zum Umsetzen eines Objektes zwischen mindestens zwei Orten
 English Title: Device for the Transfer of an Object Between at Least Two Locations
 Filed: 16-Feb-1998
 Published/Granted: 22-July-1999
 Appl. No.: 198 06 231.1-15
 Patent No.: 198 06231 C1
 Assignee: JENOPTIK Aktiengesellschaft
 Status: Granted

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Patent No.	Assignee at Filing/Issue
USA	Filed	22-Sep-1998		09/158559		JENOPTIK Aktiengesellschaft
Great Britain	Filed	19-Aug-1998		98 18136.5		JENOPTIK Aktiengesellschaft
France	Filed	24-Jul-1998		98 09461		JENOPTIK Aktiengesellschaft
Japan	Filed	7-Aug-1998		10-224947		JENOPTIK Aktiengesellschaft
Taiwan	Filed	4-Aug-1998		87 112 793		JENOPTIK Aktiengesellschaft
South Korea	Filed	26-Aug-1998		98-34639		JENOPTIK Aktiengesellschaft
Singapore	Filed	24-Aug-1998		98 03278-2		JENOPTIK Aktiengesellschaft

23.

Country: Germany
 German Title: Sicherheitseinrichtung für ein bewegtes System
 English Title: Safety Device for a Moving System
 Filed: 19-Feb-1998
 Published/Granted: 12-Aug-1999
 Appl. No.: 198 06 852.2-26
 Patent No.: 198 06852 C1
 Assignee: JENOPTIK Aktiengesellschaft
 Status: Granted

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Patent No.	Assignee at Filing/Issue
USA	Filed	22-Sep-1998		09/158560		JENOPTIK Aktiengesellschaft
Great Britain	Filed	19-Aug-1998		9818132.4		JENOPTIK Aktiengesellschaft
France	Published	24-Jul-1998	1-Oct-1999	98 09459	2,776,643	JENOPTIK Aktiengesellschaft
Japan	Filed	29-Jul-1998		10-214096		JENOPTIK Aktiengesellschaft

Taiwan	Filed	19-Aug-1998		87 113 617		JENOPTIK Aktiengesellschaft
South Korea	Filed	26-Aug-1998		98-34640		JENOPTIK Aktiengesellschaft
Singapore	Filed	24-Aug-1998		98 03282-4		JENOPTIK Aktiengesellschaft

24.

Country: Germany
German Title: Einrichtung zur Aufnahme von Transportbehältern an einer Be- und Entladestation
English Title: Device for Receiving Transport Containers at a Loading and Unloading Station
Filed: 27-Mar-1998
Published/Granted: N/A
Appl. No.: 198 13 684.6-22
Patent No.: N/A
Assignee: JENOPTIK Aktiengesellschaft
Status: Filed/Pending

Foreign Counterpart Applications/Patents

Country	Status	Filing Date	Publication /Issue Date	Application No.	Publication/Pa tent No.	Assignee at Filing/Issue
USA	Filed	2-Nov-1998		09/184561		JENOPTIK Aktiengesellschaft
Great Britain	Filed	29-Sep-1998		9 821 123.8		JENOPTIK Aktiengesellschaft
France	Filed	10-Aug-1998		98 10248		JENOPTIK Aktiengesellschaft
Japan	Filed	8-Oct-1998		10-286 580		JENOPTIK Aktiengesellschaft
Taiwan	Filed	20-Aug-1998		87 113 710		JENOPTIK Aktiengesellschaft
South Korea	Filed	2-Oct-1998		98-41535		JENOPTIK Aktiengesellschaft
Singapore	Filed	19-Sep-1998		98 03 764-1		JENOPTIK Aktiengesellschaft

25.

Country: USA
English Title: Device for Controlling the Drive of Mechanisms Operating Separately from One Another
Filed: 10/13/98
Published/Granted: N/A
Appl. No.: 09/170575
Patent No.: N/A
Assignee: JENOPTIK Aktiengesellschaft
Status: Pending

26.

Country: USA
English Title: Device for Aligning and Coupling at least a Partial Region of a Movable Object to a Destination
Filed: 13-Oct-1998
Published/Granted: N/A
Appl. No.: 09/170557
Patent No.: N/A
Assignee: JENOPTIK Aktiengesellschaft
Status: Pending

27.
Country: USA
English Title: System for Communication between a central controller and items in a factory using infrared light
Filed: 1-Sep-1995
Published/Granted: 21-Apr-1998
Appl. No.: 522692
Patent No.: 5,742,238
Assignee: Emtrak, Inc.

28.
Country: USA
English Title: Apparatus for Electronically Tracking Containers to Avoid Misprocessing of Contents
Filed:
Published/Granted:
Appl. No.:
Patent No.:
Assignee:
Status: Filed/Pending

29.
Country: Germany
German Title: Einrichtung zur Handhabung eines Gegenstandes für die Be- und Entladung eines Reinstraumes
English Title: Device for Handling of an Object for Loading and Unloading of a Clean Room
Filed: 9-Apr-1999
Published/Granted: N/A
Appl. No.: 199 16 932.2-22
Patent No.: N/A
Assignee: JENOPTIK Aktiengesellschaft
Status: Filed/Pending

30.
Country: Japan
English Title: A Device and Method for Processing a Substrate
Filed:
Published/Granted:
Appl. No.:
Patent No.:
Assignee:
Owner: JENOPTIK Aktiengesellschaft (50%) &
Tokyo Electron, LTD (50%)
Status: Not Filed

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