NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing
(day/month/year) 05/09/2005

FOR FURTHER ACTION
See paragraphs 1 and 4 below

Applicant's or agent's file reference
3194.1038002

International application No.
PCT/US2005/003287

International filing date
(day/month/year) 03/02/2005

Applicant

MYKROLIS CORPORATION

1. X The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 48):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes, 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. □ The applicant is hereby notified that no International search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. □ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

- the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

- no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90(b) and 98(b)(3), respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5816 Patentlaan 2
NL-2280 HV Rijswijk
Tel. (+31-70) 940-2040, Tx. 31 851 epc nl,
Fax: (+31-70) 340-3018

Authorized officer

Iveta Bujanska

Form PCT/SA220 (January 2004)
NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant’s Guide, a publication of WIPO.

In these Notes, “Article”, “Rule”, and “Section” refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see PCT Applicant’s Guide, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see PCT Applicant’s Guide, Volume VII, paragraph 206).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 48.2).

Where a demand for international preliminary examination has been filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 206(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 206(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the “Statement under Article 19(1)” (see below, under “Statement under Article 19(1)”).

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 2004)
PCT

INTERNATIONAL SEARCH REPORT
(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 3194 1038002

FOR FURTHER ACTION  see Form PCT/ISA/220
as well as, where applicable, item 5 below.

International application No. PCT/US2005/003287
International filing date (day/month/year) 03/02/2005
(Earliest) Priority Data (day/month/year) 05/02/2004

Applicant
MYKROLIS CORPORATION

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of ___ 6 ___ sheets.

X It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report
a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

X The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the International application, see Box No. I.

2. Certain claims were found unsearchable (See Box II).

3. Unity of invention is lacking (see Box III).

4. With regard to the title,

X the text is approved as submitted by the applicant.

 as selected by this Authority, because the applicant failed to suggest a figure.

 as selected by this Authority, because this figure better characterizes the invention.

none of the figures is to be published with the abstract.

5. With regard to the abstract,

X the text is approved as submitted by the applicant.

 as suggested by the applicant.

6. With regard to the drawings,
a. the figure of the drawings to be published with the abstract is Figure No. __ 6 __ as suggested by the applicant.

X as selected by this Authority, because the applicant failed to suggest a figure.

b. none of the figures is to be published with the abstract.

Form PCT/ISA/210 (first sheet) (January 2004)
**INTERNATIONAL SEARCH REPORT**

**Box II**  Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box III**  Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

☐ The additional search fees were accompanied by the applicant's protest.

☒ No protest accompanied the payment of additional search fees.
This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-12

This invention concerns a method of purifying a transfer container comprising the step of purging the transfer container with a gas having a certain concentration. The problem to be solved is to reduce device contamination.

2. claims: 13-21

This invention is directed to a method and a system of transferring an object from a transfer container to a sealed chamber. The problem to be solved is to improve the process control.
**INTERNATIONAL SEARCH REPORT**

**International Application No:**

**PCT/US2005/GQ3287**

### A. CLASSIFICATION OF SUBJECT MATTER

| IPC | H01L21/00 | H01L21/68 | B01D46/00 | B01D50/00 | F24F3/16 |

According to International Patent Classification (IPC) or to both national classification and IPC.

### B. FIELDS SEARCHED

| IPC | H01L | B01D | F24F |

Minimum documentation searched (classification system followed by classification symbols).

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched.

Electronic data base consulted during the international search (name of data base and, where practical, search terms used):

**EPO-Internal, PAJ, WPI Data**

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

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<tr>
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<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
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<td>paragraphs [0243], [0245]; figure 68</td>
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<td>US 5 644 855 A (MCDERMOTT ET AL) 8 July 1997 (1997-07-08) column 9, line 29 - column 10, line 5</td>
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</table>

[X] Further documents are listed in the continuation of box C.  
[X] Patent family members are listed in annex.

* Special categories of cited documents:
  * A+ document defining the general state of the art which is not considered to be of particular relevance.
  * G/ document earlier document but published on or after the international filing date.
  * L/ document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another document or to explain other means.
  * O/ document referring to an oral disclosure, use, exhibition or other means.
  * P/ document published prior to the international filing date but later than the priority date claimed.
  * T/ later document published after the international filing date but not in conflict with the application but cited to understand the principle or theory underlying the invention.
  * X/ document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone.
  * Y/ document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
  * Z/ document relating to the same patent family.

Date of the actual completion of the international search: 2 August 2005

Date of mailing of the international search report: 8 August 2005

Name and mailing address of the ISA European Patent Office, P.B. 5816 Patentlaan 2 NL-2280 HN Rijswijk Tel: (+31-70) 340-30-40, Tx: 31 551 epo nl, Fax: (+31-70) 340-30-19

Authorized officer: Angermeier, D.

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Form PCT/SG/210 (second sheet) (January 2004)
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<td>A</td>
<td>US 5 169 272 A (BONORA ET AL) 8 December 1992 (1992-12-08) column 1, line 59 - column 2, line 28</td>
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Form PCT/ISA/210 (patent family annex) (January 2004)
**PCT**

**WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY**

(PCT Rule 43bis.1)

Date of mailing (day/month/year) see form PCT/ISA/220 (second sheet)

**FOR FURTHER ACTION**

See paragraph 2 below

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**International application No.**

PCT/US2005/003287

**International filing date (day/month/year)**

03.02.2005

**Priority date (day/month/year)**

05.02.2004

**International Patent Classification (IPC) or both national classification and IPC**

H01L21/00, H01L21/68, B01D46/00, B01D50/00, F24F3/16

**Applicant**

MYKROLIS CORPORATION

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**1. This opinion contains indications relating to the following items:**

- **Box No. I** Basis of the opinion
- **Box No. II** Priority
- **Box No. III** Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- **Box No. IV** Lack of unity of invention
- **Box No. V** Reasoned statement under Rule 43bis.1(a)/(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- **Box No. VI** Certain documents cited
- **Box No. VII** Certain defects in the international application
- **Box No. VIII** Certain observations on the international application

**2. FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

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**Name and mailing address of the ISA:**

European Patent Office
D-80298 Munich
Tel. +49 89 2399 - 0
Fax: +49 89 2399 - 4465

**Authorized Officer**

Angermeyer, D

Telephone No. +49 89 2399-2283

Form (PCT/ISA/237) (Cover Sheet) (January 2004)
Box No. 1  Basis of the opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
   a. type of material:
      ☐ a sequence listing
      ☐ table(s) related to the sequence listing
   b. format of material:
      ☐ in written format
      ☐ in computer readable form
   c. time of filing/furnishing:
      ☐ contained in the international application as filed.
      ☐ filed together with the international application in computer readable form.
      ☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:
Box No. III  Non-establishment of opinion with regard to novelty, Inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:

☐ the entire international application,

☑ claims Nos. 13-19

because:

☐ the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):

☐ the description, claims or drawings (indicate particular elements below) or said claims Nos. 13-19 are so unclear that no meaningful opinion could be formed (specify):

see separate sheet

☐ the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.

☐ no international search report has been established for the whole application or for said claims Nos.

☐ the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:

☐ the written form does not comply with the standard

☐ the computer readable form does not comply with the standard

☐ the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.

☑ See separate sheet for further details
WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US2005/003287

Box No. IV  Lack of unity of Invention

1. ☐ In response to the invitation (Form PCT/ISA/206) to pay additional fees, the applicant has:

☐ paid additional fees.
☐ paid additional fees under protest.
☐ not paid additional fees.

2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is

☐ complied with
☒ not complied with for the following reasons:

see separate sheet

4. Consequently, this report has been established in respect of the following parts of the international application:

☒ all parts.
☐ the parts relating to claims Nos.

Box No. V  Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, Inventive step or Industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)  Yes: Claims  No: Claims 1, 20

Inventive step (IS)  Yes: Claims  No: Claims 1-12, 20, 21

Industrial applicability (IA)  Yes: Claims  No: Claims 1-12, 20, 21

2. Citations and explanations

see separate sheet

Form PCT/ISA/237 (January 2004)
**WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY**

International application No. PCT/US2005/003287

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<th>Certain defects in the International application</th>
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<td>The following defects in the form or contents of the international application have been noted:</td>
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<td>The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:</td>
</tr>
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Form PCT/ISA/237 (January 2004)