The following classification changes will be effected by this Notice of Changes:

<table>
<thead>
<tr>
<th>Action</th>
<th>Subclass</th>
<th>Group(s)</th>
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<tr>
<td>DEFINITIONS:</td>
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<tr>
<td>Definitions New:</td>
<td>G01N</td>
<td>27/623, 27/624</td>
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<td>H01J</td>
<td>49/26</td>
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<tr>
<td>Definitions Modified:</td>
<td>G01N</td>
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This Notice of Changes includes the following [Check the ones included]:

1. CLASSIFICATION SCHEME CHANGES
   - A. New, Modified or Deleted Group(s)
   - B. New, Modified or Deleted Warning(s)
   - C. New, Modified or Deleted Note(s)
   - D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS
   - A. New or Modified Definitions (Full definition template)
   - B. Modified or Deleted Definitions (Definitions Quick Fix)

3. REVISION CONCORDANCE LIST (RCL)
4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)
2. A. DEFINITIONS (new)

G01N 27/623

Definition statement

This place covers:

The investigation of materials by using a combination of a mass spectrometer and an ion-mobility spectrometer, where the improvement arises from the combination of the two spectrometers.

Relationships with other classification places

An improvement in a mass spectrometer that is used in an analytical system combining an ion-mobility spectrometer and the mass spectrometer is classified both in this group and in the most relevant subgroup of H01J 49/00.

References

Informative references:
Attention is drawn to the following places, which may be of interest for search:

| Mass spectrometers or separator tubes, per se | H01J 49/26 |

G01N 27/624

Definition statement

This place covers:

Separating and identifying ionised molecules based on their mobility in a carrier gas using a non-uniform electric field.
Synonyms and keywords

In patent documents, the words/expressions are often used as synonyms:

- “Field asymmetric ion mobility spectrometry (FAIMS)” and “RF-DC ion mobility spectrometry”

H01J 49/26

References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

| Ion-mobility spectrometry combined with mass spectrometry, for investigating the ionisation of gases | G01N 27/623 |
| Separation of different isotopes of the same chemical element by mass spectrography | B01D 59/44 |
2. A. DEFINITIONS (Modified)

G01N 27/622

Insert: New Definition statement section and text.

Definition statement

This place covers:
Separating and identifying ionised molecules based on their mobility in a carrier gas.

Insert: New Relationships with other classification places section and text.

Relationships with other classification places

Inventive combinations of ion mobility spectrometry and another analytical technique covered by groups G01N 29/00, G01N 30/00 or G01N 33/00 are fully covered by this group. However, when the sub-combination aspect belonging to groups G01N 29/00, G01N 30/00 or G01N 33/00 is deemed inventive in its own right, it is also classified in the relevant one(s) of those main groups.

For example, investigation of a material performed by combining a chromatography apparatus with an ion-mobility spectrometer is classified solely in this group, whereas an improved chromatography apparatus which is advantageously used in a combination of a chromatography apparatus and an ion-mobility spectrometer is classified both in this group and in the most relevant subgroup of main group G01N 30/00.

If the other sub-combination system does not belong to subclass G01N, classification is then made both in the present group and in the appropriate place for the other sub-combination element.

A combination of ion-mobility spectrometry and mass spectrometry is covered by group G01N 27/623.
**G01N 27/90**

**References**

*Informative references:*

Insert: The following new row to the Informative references table.

| Devices for measuring angular speed using eddy currents | G01P 3/49 |

**G01N 27/9093**

**References**

*Informative references:*

Insert: The following new rows to the Informative references table.

| Apparatus for sorting of mail or documents according to destination, characterised by magnetic means being used for detection of destination | B07C 3/16 |
| Sorting of materials or articles by devices actuated as a result of inspection, detection or measurement of some electric or electromagnetic properties of the material, when not adapted for a specific purpose covered by another class | B07C 5/344 |
| Sorting arrangements specially combined with or arranged in, or specially adapted for use in connection with, machine tools | B23Q 7/12 |