

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1180

DATE: JANUARY 1, 2022

PROJECT DP0236

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
DEFINITIONS:		
Definitions New:	G01N	27/623, 27/624
	H01J	49/26
Definitions Modified:	G01N	27/622, 27/90, 27/9093

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
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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.

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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
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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