

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 155

DATE: JANUARY 1, 2016

PROJECT RP0303

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>Title wording changes:</b>	F16J	9/00
	F16J	15/00
	F16J	15/16
	F16J	15/32
	F16J	15/3204
	F16J	15/3208
	F16J	15/3212
	F16J	15/3216
	F16J	15/322
	F16J	15/3224
	F16J	15/3228
	F16J	15/3232
	F16J	15/3236
	F16J	15/324
	F16J	15/3244
	F16J	15/3248
	F16J	15/3252
	F16J	15/3256
	F16J	15/326
	F16J	15/3264
	F16J	15/3268
	F16J	15/3272
	F16J	15/3276
	F16J	15/328
	F16J	15/3284
	F16J	15/3288
	F16J	15/3292
	F16J	15/3296
<b>Indent changes:</b>	F16J	15/3268
	F16J	15/3272
<b>New/modified Definitions:</b>	F16J	Subclass (modified)
	F16J	15/00 (new)
	F16J	15/16 (modified)
	F16J	15/328 (new)
	F16J	15/3296 (modified)

No other subclasses/groups are impacted by this Notice of Changes.

This Notice of Changes includes the following *[Check the ones included]*:

CPC NOTICE OF CHANGES 155

DATE: JANUARY 1, 2016

PROJECT RP0303

1. CLASSIFICATION SCHEME CHANGES
  - A. New, Modified or Deleted Group(s)
  - B. New, Modified or Deleted Warning Notice(s)
  - C. New, Modified or Deleted Note(s)
  - D. New, Modified or Deleted Guidance Heading(s)
2. DEFINITIONS (New or Modified)
  - A. DEFINITIONS (Full definition template)
  - B. DEFINITIONS (Definitions Quick Fix)
3.  REVISION CONCORDANCE LIST (RCL)
4.  CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
5.  CROSS-REFERENCE LIST (CRL)

CPC NOTICE OF CHANGES 155

DATE: JANUARY 1, 2016

PROJECT RP0303

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

**SUBCLASS F16J- PISTONS; CYLINDERS; SEALINGS**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0,</u> <u>1, 2)</u>	<u>Title</u> <u>(new or modified)</u> <u>“CPC only” text should normally be</u> <u>enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	F16J9/00	0	Piston-rings {, e.g. non-metallic piston-rings}, seats therefor; Ring sealings of similar construction (other sealings between pistons and cylinders F16J3/06, F16J15/16 {; manufacture of piston-rings B23P 15/06, B23P 15/08}; tools for mounting or removing piston-rings or the like B25B; piston sealing arrangements on brake master cylinders B60T 11/236 {; sealing provided on pump pistons F04B 53/143})	
M	F16J15/00	0	Sealings	
M	F16J15/16	1	between relatively-moving surfaces (F16J15/50, F16J15/52 take precedence; bellows pistons F16J3/06; piston-rings or ring sealings of similar construction F16J9/00)	
M	F16J15/32	2	with elastic sealings, e.g. O-rings	
M	F16J15/3204	3	with at least one lip	
M	F16J15/3208	4	provided with tension elements, e.g. elastic rings	
M	F16J15/3212	5	with metal springs	
M	F16J15/3216	4	supported in a direction parallel to the surfaces	
M	F16J15/322	4	supported in a direction perpendicular to the surfaces	
M	F16J15/3224	4	capable of accommodating changes in distances or misalignment between the surfaces, e.g. able to compensate for defaults of eccentricity or angular deviations	
M	F16J15/3228	4	formed by deforming a flat ring	
M	F16J15/3232	4	having two or more lips	
M	F16J15/3236	5	with at least one lip for each surface, e.g. U-cup packings	
M	F16J15/324	3	Arrangements for lubrication or cooling of the sealing itself	
M	F16J15/3244	3	with hydrodynamic pumping action	
M	F16J15/3248	3	provided with casings or supports	
M	F16J15/3252	4	with rigid casings or supports	

## CPC NOTICE OF CHANGES 155

DATE: JANUARY 1, 2016

PROJECT RP0303

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0,</u> <u>1, 2)</u>	<u>Title</u> <u>(new or modified)</u> <u>“CPC only” text should normally be</u> <u>enclosed in {curly brackets}**</u>	<u>Transferred to<sup>#</sup></u>
M	F16J15/3256	5	comprising two casing or support elements, one attached to each surface, e.g. cartridge or cassette seals	
M	F16J15/326	6	with means for detecting or measuring relative rotation of the two elements	
M	F16J15/3264	6	the elements being separable from each other	
M	F16J15/3268	3	Mounting of sealing rings	
M	F16J15/3272	4	the rings having a break or opening, e.g. to enable mounting on a shaft otherwise than from a shaft end	
M	F16J15/3276	4	with additional static sealing between the sealing, or its casing or support, and the surface on which it is mounted	
M	F16J15/328	3	Manufacturing methods specially adapted for elastic sealings (moulding B29C )	
M	F16J15/3284	3	characterised by their structure; Selection of materials	
M	F16J15/3288	4	Filamentary structures, e.g. brush seals	
M	F16J15/3292	4	Lamellar structures	
M	F16J15/3296	3	Arrangements for monitoring the condition or operation of elastic sealings (F16J15/326 takes precedence); Arrangements for control of elastic sealings, e.g. of their geometry or stiffness	

\*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; E= existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

## NOTES:

- \*\*No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- For U groups, the minimum requirement is to include the U group located immediately prior to the N group or N group array, in order to show the N group hierarchy and improve the readability and understanding of the scheme. Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types except “D” which requires only a symbol.
- #“Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

DATE: JANUARY 1, 2016

PROJECT RP0303

## 2. A. DEFINITIONS (i.e. new or modified)

### F16J

#### References relevant to classification in this group

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

**Delete** the existing References relevant table.

**Replace** with the following:

Pressure cookers	<a href="#">A47J27/08</a>
Sealing arrangements for vehicle windows, windscreens, non-fixed roofs, doors, or similar devices	<a href="#">B60J10/00</a>
Sealing or packing elements for container closures	<a href="#">B65D53/00</a>
Sealing building joints	<a href="#">E04B1/66</a>
Sealing arrangements on wings or parts co-operating with wings	<a href="#">E06B7/16</a>
Machines or engines of reciprocating type	<a href="#">F01B</a>
Sealing arrangements in rotary-piston machines or engines	<a href="#">F01C19/00</a>
Sealings in non-positive-displacement machines or engines	<a href="#">F01D11/00</a>
Cylinders of combustion engines	<a href="#">F02F1/00</a>
Pistons for combustion engines	<a href="#">F02F3/00</a>
Arrangements of sealings in combustion engines	<a href="#">F02F11/00</a>
Sealing arrangements in rotary-piston pumps	<a href="#">F04C27/00</a>
Sealings of non-positive displacement pumps	<a href="#">F04D29/08</a>
Sealings for bearings	<a href="#">F16C33/72</a>
Pistons specially adapted for dampers	<a href="#">F16F9/32</a>
Sealing devices for sliding parts of gas holders of variable capacity	<a href="#">F17B1/04</a>
Arrangements for sealing elements into header boxes or end plates of heat exchangers	<a href="#">F28F9/04</a>
Sealing lead-in or lead-through insulators	<a href="#">H01B17/30</a>

DATE: JANUARY 1, 2016

PROJECT RP0303

**F16J15/00****References relevant to classification in this group**Delete the existing References relevant table.Replace with the following table:

Sealing arrangements for vehicle windows, windscreens, non-fixed roofs, doors, or similar devices	B60J10/00
Sealing or packing elements for container closures	B65D53/00
Sealing building joints	E04B1/66
Sealing arrangements on wings or parts co-operating with wings	E06B7/16
Sealing arrangements in rotary-piston machines or engines	F01C19/00
Sealings in non-positive-displacement machines or engines	F01D11/00
Arrangements or sealings in combustion engines	F02F11/00
Sealing and arrangements in rotary-piston pumps	F04C27/00
Sealing of non-positive displacement pumps	F04D29/08
Sealings for bearings	F16C33/72
Spindle sealings for valves	F16K41/00
Sealing devices for sliding parts of gas holders of variable capacity	F17B1/04
Arrangements for sealing elements into header boxes or end plates of heat-exchangers	F28F9/04
Sealing lead-in or lead-through insulators	H01B17/30

**F16J15/16****References relevant to classification in this group**Delete the existing References relevant preamble and table.Replace with the following:

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

Piston-rings or ring sealing of similar construction	F16J9/00
Sealings between relatively-movable members, by means of a sealing without relatively-moving surfaces	F16J15/50
Sealings by means of sealing bellows or diaphragms	F16J15/52

DATE: JANUARY 1, 2016

PROJECT RP0303

Bellows pistons	F16J3/06
Sealings for bearings	F16C33/72
Spindle sealings for valves	F16K41/00

Delete the existing Informative references section.

Insert the following new definition:

## F16J15/328

### References relevant to classification in this group

*This group does not cover:*

Moulding	B29C
----------	------

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

Special methods of manufacture for sealings of bearings	F16C33/7833
Sealings produced by moulding	B29L2031/26

## F16J15/3296

Delete the Informative references section.

Insert the following References relevant section:

### References relevant to classification in this group

*This group does not cover:*

Sealings between relatively-moving surfaces with elastic sealings comprising two casing or support elements, one attached to each surface with means for detecting or measuring relative rotation of the two elements	F16J15/326
---	------------

## CPC NOTICE OF CHANGES 155

DATE: JANUARY 1, 2016

PROJECT RP0303

## 4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
F16J15/3204	F16J15/3204	UPDATED
F16J15/3208	F16J15/3208	UPDATED
F16J15/3212	F16J15/3212	UPDATED
F16J15/3216	F16J15/3216	UPDATED
F16J15/322	F16J15/322	UPDATED
F16J15/3224	F16J15/3224	UPDATED
F16J15/3228	F16J15/3228	UPDATED
F16J15/3232	F16J15/3232	UPDATED
F16J15/3236	F16J15/3236	UPDATED
F16J15/324	F16J15/324	UPDATED
F16J15/3244	F16J15/3244	UPDATED
F16J15/3248	F16J15/3248	UPDATED
F16J15/3252	F16J15/3252	UPDATED
F16J15/3256	F16J15/3256	UPDATED
F16J15/326	F16J15/326	UPDATED
F16J15/3264	F16J15/3264	UPDATED
F16J15/3268	F16J15/3268	UPDATED
F16J15/3272	F16J15/3272	UPDATED
F16J15/3276	F16J15/3276	UPDATED
F16J15/328	F16J15/328	UPDATED
F16J15/3284	F16J15/3284	UPDATED
F16J15/3288	F16J15/3288	UPDATED
F16J15/3292	F16J15/3292	UPDATED
F16J15/3296	F16J15/3296	UPDATED

## \*Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with "NEW."
- For an existing CPC main trunk entry or indexing entry where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with "UPDATED."
- For a (D) CPC entry or indexing entry complete the Action column with "DELETE." IPC symbol does not need to be included in the IPC column.
- For an (N) 2000 series CPC entry which is positioned within the main trunk scheme (breakdown code) provide an IPC symbol and complete the action column with "NEW".
- For an (N) 2000 series CPC entry positioned at the end of the CPC scheme (orthogonal code), with no IPC equivalent, complete the IPC column with "CPCONLY" and complete the action column with "NEW".

## NOTES:

- F symbols are not included in the CICL table above.
- E and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.