

EUROPEAN PATENT OFFICE  
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1712

DATE: JANUARY 1, 2025

PROJECT MP12469

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
<b>SCHEME:</b>		
Titles Changed:	F01B	SUBCLASS
	F01B	1/0665, 1/10
	F01B	3/10, 3/109
	F01B	9/00
	F01B	11/04, 11/08
	F01B	13/00, 13/04, 13/062
	F01B	15/00
	F01B	21/00
	F01B	23/00
	F01B	25/00, 25/02, 25/10, 25/12
	F01B	27/08
	F01B	29/10
	F01B	31/00, 31/005, 31/04, 31/08, 31/10, 31/12, 31/16, 31/34
Warnings Deleted:	F01B	SUBCLASS
Notes Modified:	F01B	17/04
	F01B	25/00
<b>DEFINITIONS:</b>		
Definitions Deleted: (no frozen (F) symbol definitions should be deleted)	F01B	11/00
Definitions New:	F01B	1/0665, 1/10
	F01B	25/02, 25/10
	F01B	27/08
	F01B	29/10
	F01B	31/04, 31/08, 31/10, 31/12, 31/16, 31/34
Definitions Modified:	F01B	SUBCLASS
	F01B	3/0079, 3/04, 3/10, 3/109
	F01B	9/00
	F01B	11/04, 11/08
	F01B	13/00, 13/04
	F01B	15/00
	F01B	17/02, 17/04
	F01B	21/00
	F01B	23/00
	F01B	25/00

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

**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)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

**SUBCLASS F01B - MACHINES OR ENGINES, IN GENERAL OR OF POSITIVE-DISPLACEMENT TYPE, e.g. STEAM ENGINES** (of rotary-piston or oscillating-piston type F01C; of non-positive-displacement type F01D; internal-combustion aspects of reciprocating-piston engines F02B 57/00, F02B 59/00; crankshafts, crossheads, connecting-rods F16C; flywheels F16F; gearings for interconverting rotary motion and reciprocating motion in general F16H; pistons, piston rods, cylinders, for engines in general F16J)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	F01B	SUBCLASS	MACHINES OR ENGINES, IN GENERAL OR OF POSITIVE-DISPLACEMENT TYPE, e.g. STEAM ENGINES (of rotary-piston or oscillating-piston type F01C; of non-positive-displacement type F01D; internal-combustion engines F02B; combustion-product engine plants F02G; machines or engines, other than of positive-displacement type, for liquids F03B; positive-displacement engines driven by liquids F03C; wind motors F03D; positive-displacement machines for liquids F04B; rotary-piston, or oscillating-piston, positive-displacement machines for liquids F04C)	
M	F01B 1/0665	3	{Disconnecting the pistons from the actuating or actuated cam}	
M	F01B 1/10	1	with more than one main shaft, e.g. coupled to common output shaft	
M	F01B 3/10	1	Control of working-fluid admission or discharge peculiar thereto	
M	F01B 3/109	3	{by changing the inclination of the axis of the cylinder barrel relative to the swash plate}	
M	F01B 9/00	0	Reciprocating-piston machines or engines characterised by connections between pistons and main shafts, not specific to groups F01B 1/00 - F01B 7/00	
M	F01B 11/04	1	Engines combined with reciprocatory driven devices, e.g. hammers	
M	F01B 11/08	1	with direct fluid transmission link	
M	F01B 13/00	0	Reciprocating-piston machines or engines with rotating cylinders in order to obtain the reciprocating-piston motion	
M	F01B 13/04	1	with more than one cylinder	

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M	F01B 13/062	4	{cylinder block and a actuating or a actuated cam both rotating}	
M	F01B 15/00	0	Reciprocating-piston machines or engines with movable cylinders other than provided for in group F01B 13/00	
M	F01B 21/00	0	Combinations of two or more machines or engines (F01B 23/00 takes precedence)	
M	F01B 23/00	0	Adaptations of machines or engines for special use; Combinations of engines with devices driven thereby	
M	F01B 25/00	0	Regulating, controlling or safety means (controlling combustion engines F02D)	
M	F01B 25/02	1	Regulating or controlling by varying working-fluid admission or exhaust, e.g. by varying pressure or quantity	
M	F01B 25/10	3	Arrangements or adaptations of working-fluid admission or discharge valves	
M	F01B 25/12	2	Devices dealing with sensing elements or final actuators or transmitting means between them, e.g. power-assisted	
M	F01B 27/08	2	Means for moving crank off dead-centre	
M	F01B 29/10	2	Engines	
M	F01B 31/00	0	Component parts, details or accessories not provided for in, or of interest apart from, other groups	
M	F01B 31/005	1	{Silencing equipment (F01B 31/16 takes precedence)}	
M	F01B 31/04	1	Means for equalising torque in reciprocating-piston machines or engines	
M	F01B 31/08	1	Cooling of steam engines; Heating; Heat insulation	
M	F01B 31/10	1	Lubricating arrangements of steam engines	
M	F01B 31/12	1	Arrangements of measuring or indicating devices	
M	F01B 31/16	1	Silencers specially adapted for steam engines	
M	F01B 31/34	2	Safety means against water hammer or against the penetration of water	

\*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; T = 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.

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#### 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).
- U groups: it is obligatory to display the required “anchor” symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). 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.
- “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>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or <administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“Transferred to”) symbol, however it is required to specify “<no transfer>” in the “Transferred to” column for such cases.
- For finalization projects, the deleted “F” symbols should have <no transfer> in the “Transferred to” column.
- For more details about the types of scheme change, see CPC Guide.

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B. New, Modified or Deleted Warning(s)

**SUBCLASS F01B - MACHINES OR ENGINES, IN GENERAL OR OF POSITIVE-DISPLACEMENT TYPE, e.g. STEAM ENGINES** (of rotary-piston or oscillating-piston type F01C; of non-positive-displacement type F01D; internal-combustion aspects of reciprocating-piston engines F02B 57/00, F02B 59/00; crankshafts, crossheads, connecting-rods F16C; flywheels F16F; gearings for interconverting rotary motion and reciprocating motion in general F16H; pistons, piston rods, cylinders, for engines in general F16J)

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
D	F01B	In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.	<u>Delete</u> the entire Warning.

\*N = new warning, M = modified warning, D = deleted warning

NOTE: The "Location" column only requires the symbol PRIOR to the location of the warning. No further directions such as "before" or "after" are required.

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C. New, Modified or Deleted Note(s)

**SUBCLASS F01B - MACHINES OR ENGINES, IN GENERAL OR OF POSITIVE-DISPLACEMENT TYPE, e.g. STEAM ENGINES** (of rotary-piston or oscillating-piston type F01C; of non-positive-displacement type F01D; internal-combustion aspects of reciprocating-piston engines F02B 57/00, F02B 59/00; crankshafts, crossheads, connecting-rods F16C; flywheels F16F; gearings for interconverting rotary motion and reciprocating motion in general F16H; pistons, piston rods, cylinders, for engines in general F16J)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	F01B 17/04	in this group the following indexing codes are used: F01B 2170/0411 - F01B 2170/0494	{In this group the following indexing codes are used: F01B 2170/0411 - F01B 2170/0494}
M	F01B 25/00	in this group the following indexing codes are used: F01B 2250/001 - F01B 2250/009	{In this group the following indexing codes are used: F01B 2250/001 - F01B 2250/009}

\*N = new note, M = modified note, D = deleted note

NOTE: The “Location” column only requires the symbol PRIOR to the location of the note. No further directions such as “before” or “after” are required.

## 2. A. DEFINITIONS (new)

### F01B 1/0665

#### References

##### *Informative references*

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

Disengagement of connections between pistons and main shafts	F01B 31/24
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### F01B 1/10

#### References

##### *Informative references*

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

Combinations of two or more machines or engines	F01B 21/00
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### F01B 25/02

#### References

##### *Informative references*

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

Distributing or expansion valve gear	F01L
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**F01B 25/10**

**References**

***Informative references***

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

Valves in general	F16K
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**F01B 27/08**

**References**

***Informative references***

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

Turning-gear in general	F16H
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**F01B 29/10**

**References**

***Informative references***

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

Refrigeration machines	F25B
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**F01B 31/04**

**References**

***Informative references***

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

Suppression of vibrations in systems; Means or arrangements for avoiding or reducing out-of-balance forces, e.g. due to motion	F16F 15/00
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**F01B 31/08**

**References**

***Informative references***

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

Cooling of fluid machines or engines in general	F01P
Heat insulation in general	F16L 59/00

**F01B 31/10**

**References**

***Informative references***

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

Lubricating arrangements of fluid machines or engines in general	F01M
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**F01B 31/12**

**References**

***References out of a residual place***

*Examples of places in relation to which this place is residual:*

Warning devices	F01B 25/26
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***Informative references***

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

Measuring instruments or the like per se	G01
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**F01B 31/16**

**References**

***Informative references***

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

Arrangements of exhaust pipes or tubes on steam engines	F01B 31/30
Gas-flow silencers or exhaust silencers for machines or engines in general	F01N

**F01B 31/34**

**References**

***Informative references***

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

Steam traps	F16T
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## 2. A. DEFINITIONS (modified)

### F01B

#### Definition

Insert: A period at the end of the Definition statement after the word “type”, so that the updated statement appears as follows.

Machines or engines, in general or of positive-displacement type.

#### References

Replace: The existing Limiting references table with the following updated table.

#### *Limiting references*

*This place does not cover:*

Rotary-piston or oscillating-piston machines or engines	F01C
Non-positive-displacement machines or engines, e.g. steam turbines	F01D
Internal-combustion engines	F02B
Combustion-product engine plants	F02G
Machines or engines, other than of positive-displacement type, for liquids	F03B
Positive-displacement engines driven by liquids	F03C
Wind motors	F03D
Positive-displacement machines for liquids	F04B
Rotary-piston, or oscillating-piston, positive-displacement machines for liquids	F04C

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Replace: The existing Informative references table with the following updated table.

### **Informative references**

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

Steam engine plants	F01K
Cyclically operating valves for machines or engines	F01L
Lubricating of machines or engines in general	F01M
Pumps for liquids or elastic fluids	F04
Crankshafts, crossheads or connecting-rods	F16C
Flywheels	F16F
Gearings for interconverting rotary motion and reciprocating motion in general	F16H
Pistons, piston rods or cylinders, for engines in general	F16J

Replace: The existing Synonyms and Keywords table with the following updated Glossary of terms table.

### **Glossary of terms**

*In this place, the following terms or expressions are used with the meaning indicated:*

engine	a device for continuously converting fluid energy into mechanical power, thus, this term includes, for example, steam piston engines or
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	steam turbines, per se, or internal-combustion piston engines, but it excludes single-stroke devices.
machine	a device which could equally be an engine and a pump, and not a device which is restricted to an engine or one which is restricted to a pump.
pump	a device for continuously raising, forcing, compressing, or exhausting fluid by mechanical or other means. Thus, this term includes fans or blowers.
positive displacement	the way the energy of a working fluid is transformed into mechanical energy, in which variations of volume created by the working fluid in a working chamber produce equivalent displacements of the mechanical member transmitting the energy, the dynamic effect of the fluid being of minor importance, and vice versa.
non-positive displacement	the way the energy of a working fluid is transformed into mechanical energy, by transformation of the energy of the working fluid into kinetic energy, and vice versa.
oscillating-piston machine	a positive-displacement machine in which a fluid-engaging work-transmitting member oscillates. This definition applies also to engines and pumps.
rotary-piston machine	a positive-displacement machine in which a fluid-engaging work-transmitting member rotates about a fixed axis or about an axis moving along a circular or similar orbit. This definition applies also to engines and pumps.
rotary piston	the work-transmitting member of a rotary-piston machine and may be of any suitable form, e.g., like a toothed gear.
free piston	a piston of which the length of stroke is not defined by any member driven thereby.
cylinders	positive-displacement working chambers in general. Thus, this term is not restricted to cylinders of circular cross-section.
main shaft	the shaft which converts reciprocating piston motion into rotary motion or vice versa.

plant	an engine together with such additional apparatus as is necessary to run the engine. For example, a steam engine plant includes a steam engine and means for generating the steam.
working fluid	the driven fluid in a pump or the driving fluid in an engine. The working fluid can be in a compressible, gaseous state, called elastic fluid, e.g. steam; in a liquid state; or in a state where there is coexistence of an elastic fluid and liquid phase.

**F01B 3/0079**

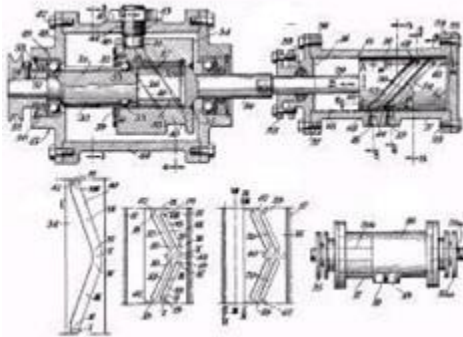
Replace: The existing Definition statement with the following updated statement.  
The image was updated.

**Definition statement**

*This place covers:*

Reciprocating-piston machines or engines with cylinder axes coaxial with, or parallel or inclined to, main shaft axis, wherein the pistons rotate (spin) about their longitudinal axis as they reciprocate.

Illustrative example of subject matter classified in this place:



**References**

Replace: The existing Informative references table with the following updated table.

Piston motion being transmitted by curved surfaces	F01B 3/04
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**F01B 3/04**

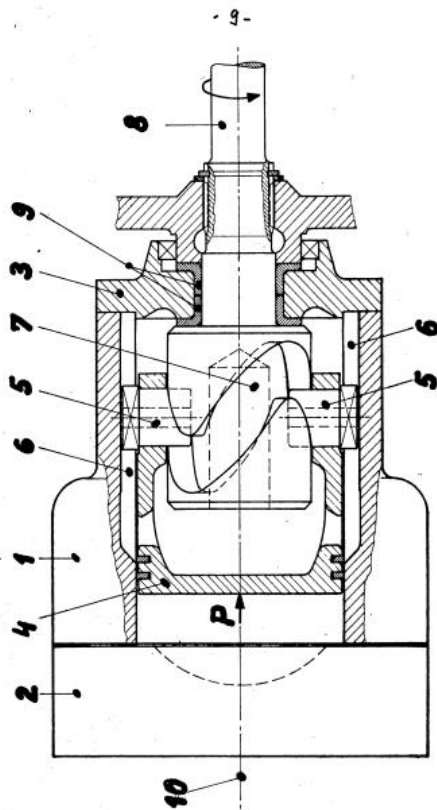
Replace: The existing Definition statement with the following updated statement.  
The image was updated.

**Definition statement**

*This place covers:*

Piston motion being transmitted by curved surfaces, e.g. by cams or grooves.

Illustrative example of subject matter classified in this place:



Delete: The entire Special rules of classification section.



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**F01B 3/10**

**References**

***Informative references***

Replace: The existing Informative references table with the following updated table.

Cyclically operating valves for machines or engines in general	F01L
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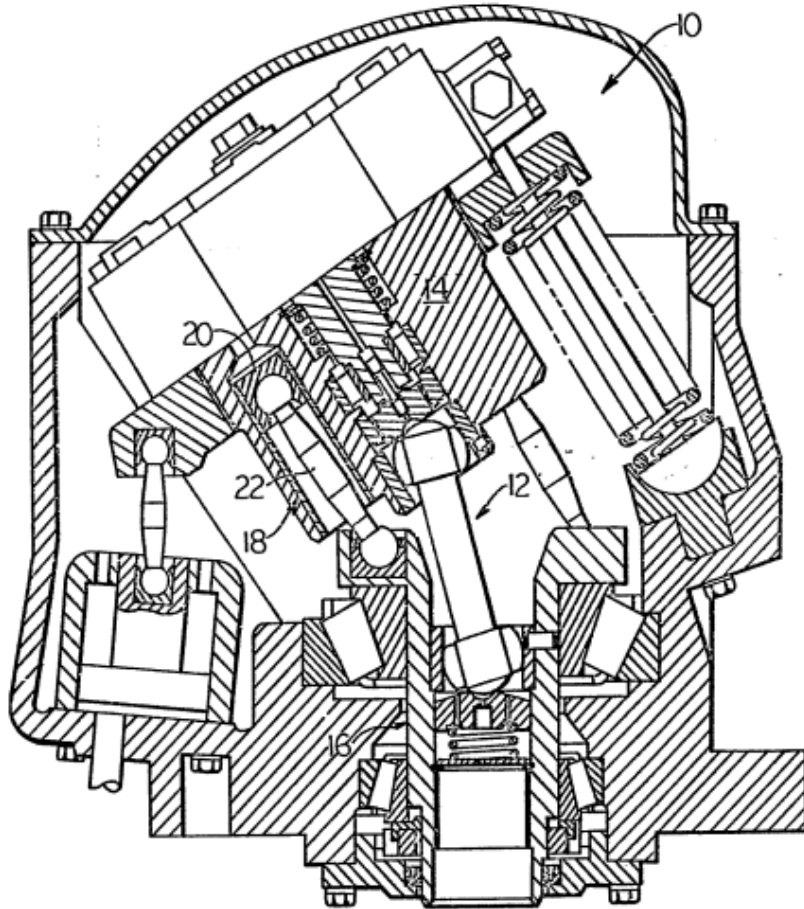
**F01B 3/109**

Insert: The following new Definition statement.

**Definition statement**

*This place covers:*

Illustrative example of subject matter classified in this place:



Delete: The entire Limiting references section.

Insert: The following new Informative references section.

**References**

***Informative references***

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

Control of working-fluid admission or discharge by changing inclination of the swash plate	<a href="#">F01B 3/106</a>
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Delete: The entire Special rules of classification section.

**F01B 9/00**

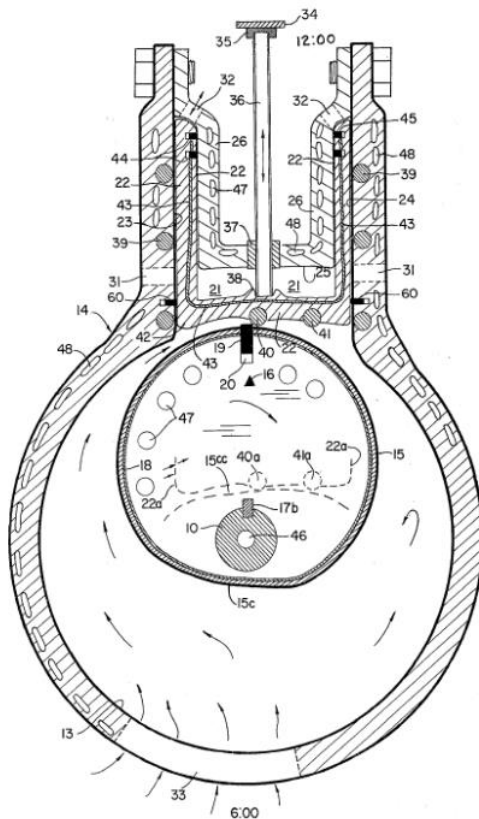
Replace: The existing Definition statement with the following updated statement and image.

**Definition statement**

*This place covers:*

Reciprocating-piston machines or engines characterised by connections between pistons and main shafts and not specific to groups F01B 1/00 - F01B 7/00, e.g. when no recognisable crank shaft is present or the main shaft is a cam shaft.

Illustrative example of subject matter classified in this place:



Delete: The entire Limiting references section.

Insert: The following new Informative references section.

**References**

**Informative references**

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

Connections disengageable during idling	F01B 31/24
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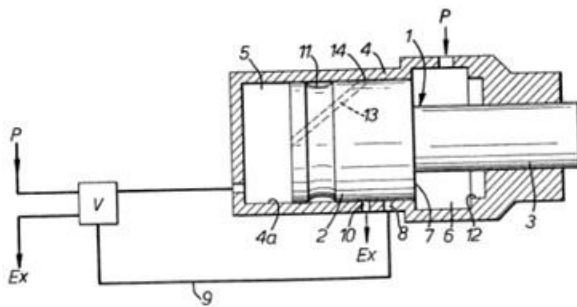
**F01B 11/04**

Insert: The following new Definition statement.

**Definition statement**

*This place covers:*

Illustrative example of subject matter classified in this place:



Delete: The entire Limiting references section.

Insert: The following new Informative references section.

**Informative references**

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

Engines combined with pumps	F01B 23/08
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Delete: The entire Special rules of classification section.

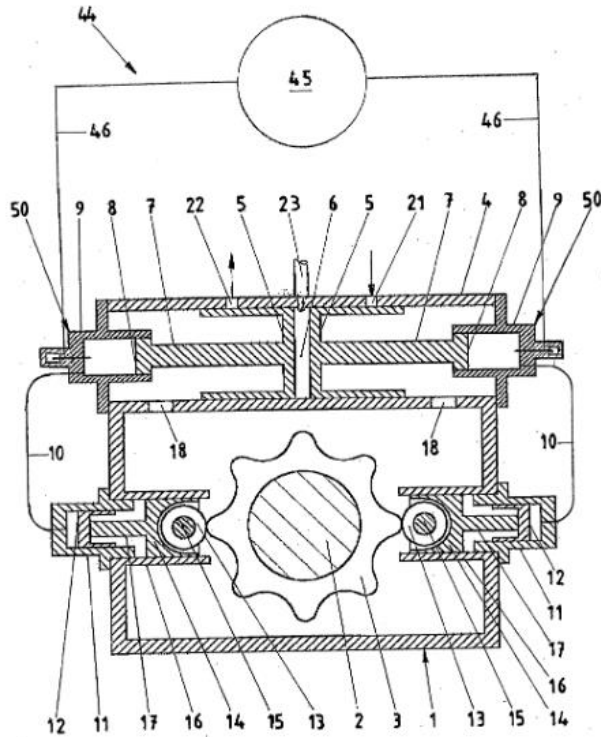
**F01B 11/08**

Insert: The following new Definition statement.

**Definition statement**

*This place covers:*

Illustrative example of subject matter classified in this place:



Delete: The entire Limiting references section.

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Insert: The following new Informative references section.

**References**

***Informative references***

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

Equalising or cushioning devices	F01B 11/02
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Delete: The entire Special rules of classification section.

**F01B 13/00**

**References**

Delete: The entire Limiting references section.

Replace: The Informative references table with the updated table.

Machines or engines of flexible-wall type	F01B 19/00
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**F01B 13/04**

Insert: The following new Definition statement.

**Definition statement**

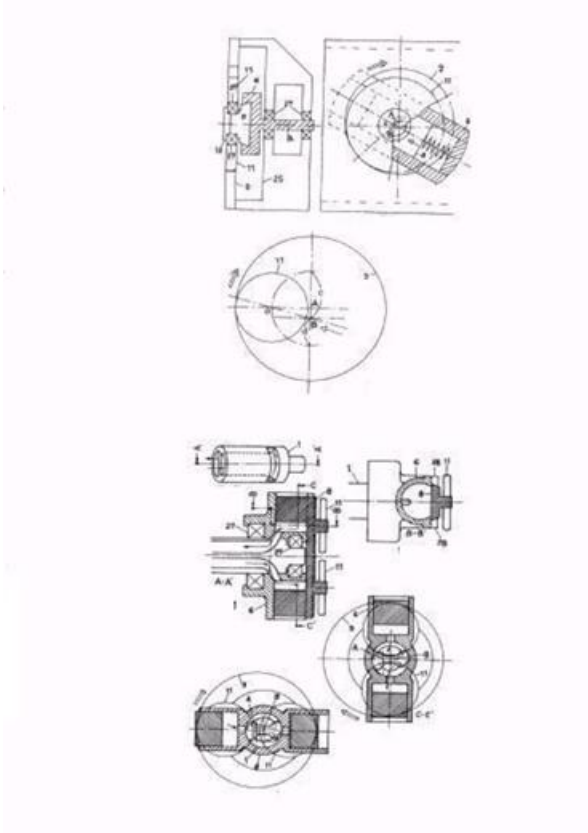
*This place covers:*

Illustrative example of subject matter classified in this place:

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Insert: The following new Informative references section.

**References**

***Informative references***

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

Reciprocating-piston machines or engines with cylinder axes coaxial with, or parallel or inclined to, main shaft axis having rotary cylinder block	<a href="#">F01B 3/0032</a>
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Delete: The entire Special rules of classification section.

**F01B 15/00**

Replace: The existing Definition statement with the following updated statement.

**Definition statement**

*This place covers:*

Reciprocating-piston machines or engines with movable cylinders other than provided for in group [F01B 13/00](#), e.g. reciprocating-piston machines or engines having reciprocating cylinders or pivoting and oscillating cylinders.

Delete: The entire Limiting references section.

Insert: The following new Informative references section.

**References**

***Informative references***

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

Slide-valve gear or valve arrangements, with cylindrical, sleeve or part-annularly-shaped valves, surrounding working cylinder or piston	<a href="#">F01L 5/06</a>
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**F01B 17/02**

**References**

***Informative references***

Replace: The Informative references table with the updated table.

Arrangement or mounting of steam or gaseous-pressure propulsion units of the piston type in vehicles	<a href="#">B60K 3/02</a>
Arrangement or mounting of plural diverse prime-movers for mutual or common propulsion, prime movers comprising combustion engines and a chargeable fluidic accumulator for storing fluid energy	<a href="#">B60K 6/12</a>



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**F01B 17/04**

**References**

Delete: The entire Limiting references section.

Replace: The Informative references table with the updated table.

Toys	A63H
Steam engine plants	F01K

**F01B 21/00**

**Definition statement**

Replace: The Definition statement with the updated statement.

Combinations of two or more machines or engines, e.g. a combined internal combustion engine and steam engine.

**References**

Replace: The Limiting references table with the updated table.

Adaptations of machines or engines for special use; Combinations of engines with devices driven thereby	F01B 23/00
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Insert: The following new Informative references section.

***Informative references***

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

Combinations of two or more positive-displacement pumps in pumping installations or systems specially adapted for elastic fluids	F04B 41/06
Combinations of two or more machines or pumps, each being of rotary-piston or oscillating-piston type; Pumping installations	F04C 11/00

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Combinations of two or more pumps, each being of rotary-piston or oscillating-piston type, specially adapted for elastic fluids; Pumping installations specially adapted for elastic fluids; Multi-stage pumps specially adapted for elastic fluids	F04C 23/00
Combinations of two or more non-positive-displacement pumps in pumping installations or systems	F04D 13/12
Combinations of two or more non-positive-displacement pumps in pumping installations or systems specially adapted for elastic fluids	F04D 25/16
Rotary fluid gearing using pumps and motors of the volumetric type, i.e. passing a predetermined volume of fluid per revolution	F16H 39/00
Rotary fluid gearing of the hydrokinetic type	F16H 41/00
Other fluid gearing, e.g. with oscillating input or output	F16H 43/00
Combinations of fluid gearings for conveying rotary motion with couplings or clutches	F16H 45/00

**F01B 23/00**

**References**

Delete: The entire Limiting references section.

Replace: The Informative references table with the updated table.

Reciprocating-piston machines or engines without rotary main shaft, e.g. of free-piston type	F01B 11/00
Rotary fluid gearing using pumps and motors of the volumetric type, i.e. passing a predetermined volume of fluid per revolution	F16H 39/00
Rotary fluid gearing of the hydrokinetic type	F16H 41/00
Other fluid gearing, e.g. with oscillating input or output	F16H 43/00
Combinations of fluid gearings for conveying rotary motion with couplings or clutches	F16H 45/00

CPC NOTICE OF CHANGES 1712

DATE: JANUARY 1, 2025

PROJECT MP12469

**F01B 25/00**

**References**

Replace: The Limiting references table with the updated table.

Controlling combustion engines	F02D
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Insert: The following new Informative references section.

***Informative references***

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

Regulating or controlling in general	G05
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CPC NOTICE OF CHANGES 1712

DATE: JANUARY 1, 2025

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2. B. DEFINITIONS QUICK FIX

Symbol	Location of change (e.g., section title)	Existing reference symbol or text	Action; New symbol; New text
F01B11/00			Delete the entire Definition.

**Notes:**

Use this Definitions Quick Fix (DQF) table to:

- Delete an entire definition
- Delete an entire section
- Change a reference symbol
- Delete a reference symbol
- Delete text in a References section
- Correct one error in spelling, article use, or verb tense

Otherwise, use the standard template.

*Reminder: Never delete F symbol definitions.*