

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1040

DATE: FEBRUARY 1, 2021

PROJECT MP0482

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Titles Changed:	F16H	3/12
	F16H	7/00, 7/24
	F16H	9/24
	F16H	13/00
	F16H	19/00
	F16H	21/04, 21/10, 21/20, 21/36, 21/50
	F16H	23/02
	F16H	25/10, 25/12, 25/14
	F16H	27/00
	F16H	29/00, 29/04, 29/10
	F16H	31/00
	F16H	33/06
	F16H	35/02, 35/06, 35/10, 35/12, 35/16, 35/18
	F16H	37/00, 37/12
	F16H	39/00, 39/01, 39/10
	F16H	41/32
	F16H	45/00
	F16H	47/00
	F16H	51/00
	F16H	53/00
	F16H	55/00, 55/14, 55/22, 55/30, 55/32, 55/36, 55/38
	F16H	57/01, 57/022, 57/023, 57/025, 57/027, 57/029, 57/035, 57/05
	F16H	61/18, 61/22, 61/40, 61/4061, 61/4069, 61/438, 61/439, 61/456, 61/62, 61/66, 61/662
Warning Modified	F16H	SUBCLASS
Guidance Headings Modified	F16H	F16H 21/00 - F16H 25/00; F16H 39/00 - F16H 49/00; F16H 51/00 - F16H 57/00
DEFINITIONS:		
Definitions New:	F16H	3/12
	F16H	9/24
	F16H	21/04, 21/20
	F16H	25/10, 25/12
	F16H	33/06
	F16H	35/12
	F16H	39/01
	F16H	41/32

CPC NOTICE OF CHANGES 1040

DATE: FEBRUARY 1, 2021

PROJECT MP0482

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	F16H	55/30,55/32,55/38
	F16H	57/025,57/05
Definitions Modified:	F16H	7/00
	F16H	9/00
	F16H	13/00
	F16H	19/00
	F16H	27/00
	F16H	31/00
	F16H	35/02, 35/10,35/16,35/18
	F16H	37/00,37/12
	F16H	39/00
	F16H	41/00
	F16H	45/00
	F16H	47/00
	F16H	51/00
	F16H	53/00
	F16H	55/00,55/14,55/22
	F16H	61/18,61/4061,61/4069,61/438, 61/439, 61/456, 61/66, 61/662

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)

CPC NOTICE OF CHANGES 1040

DATE: FEBRUARY 1, 2021

PROJECT MP0482

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS F16H - GEARING

<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	F16H 3/12	3	with means for synchronisation not incorporated in the clutches	
M	F16H 7/00	0	Gearings for conveying rotary motion by endless flexible members (specific for conveying rotary motion with variable gear ratio or for reversing rotary motion F16H 9/00 {; chainwheels F16H 55/30})	
M	F16H 7/24	1	Equipment for mounting belts, ropes, or chains	
M	F16H 9/24	2	using chains or toothed belts, belts in the form of links; Chains or belts specially adapted to such gearing	
M	F16H 13/00	0	Gearing for conveying rotary motion with constant gear ratio by friction between rotary members {(friction discs F16H 55/32)}	
M	F16H 19/00	0	Gearings comprising essentially only toothed gears or friction members and not capable of conveying indefinitely-continuing rotary motion (with intermittently-driving members F16H 27/00 - F16H 31/00)	
M	F16H 21/04	1	Guiding mechanisms, e.g. for straight-line guidance	
M	F16H 21/10	1	all movement being in, or parallel to, a single plane	
M	F16H 21/20	4	with adjustment of throw	
M	F16H 21/36	4	without swinging connecting-rod, e.g. with epicyclic parallel motion, slot-and-crank motion	

CPC NOTICE OF CHANGES 1040

DATE: FEBRUARY 1, 2021

PROJECT MP0482

<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	F16H 21/50	2	for interconverting rotary motion and reciprocating motion {(F16H 23/00 takes precedence)}	
U	F16H 23/00	0	Wobble-plate gearings; Oblique-crank gearings {(conveying rotary motion with toothed nutating gears F16H 1/321)}	
M	F16H 23/02	1	with adjustment of throw by changing the position of the wobble-member (gearings in which the transmission ratio is changed by adjustment of a wobble-plate F16H 29/04; gearings with gyroscopic action, e.g. comprising wobble-plates F16H 33/10)	
M	F16H 25/10	2	with adjustable throw	
M	F16H 25/12	2	with reciprocation along the axis of rotation, e.g. gearings with helical grooves and automatic reversal {or cams}	
M	F16H 25/14	2	with reciprocation perpendicular to the axis of rotation (crank or eccentric gearings without swinging connecting-rod F16H 21/36)	
M	F16H 27/00	0	Step-by-step mechanisms without freewheel members, e.g. Geneva drives	
M	F16H 29/00	0	Gearings for conveying rotary motion with intermittently-driving members, e.g. with freewheel action {(gearings for converting oscillating or reciprocating movement with freewheeling members or other intermittently-driving members into a rotary movement F16H 31/00)}	
M	F16H 29/04	2	in which the transmission ratio is changed by adjustment of a crank, an eccentric, a wobble-plate, or a cam, on one of the shafts	
M	F16H 29/10	2	in which the transmission ratio is changed by directly acting on the intermittently driving members	

CPC NOTICE OF CHANGES 1040

DATE: FEBRUARY 1, 2021

PROJECT MP0482

<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	F16H 31/00	0	Other gearings with freewheeling members or other intermittently driving members (F16H 21/00, F16H 23/00, F16H 25/00 take precedence)	
M	F16H 33/06	3	based essentially on spring action	
M	F16H 35/02	1	for conveying rotary motion with cyclically varying velocity ratio	
M	F16H 35/06	1	Gearings designed to allow relative movement between supports thereof without ill effects (special means compensating for misalignment of axes F16H 1/26, F16H 1/48 {; mounting or supporting gearboxes F16H 57/025})	
M	F16H 35/10	1	Arrangements or devices for absorbing overload or preventing damage by overload {(for screw mechanisms F16H 25/2021)}	
M	F16H 35/12	1	Transmitting mechanisms with delayed effect	
M	F16H 35/16	1	Mechanisms for movements or movement relations conforming to mathematical formulae	
M	F16H 35/18	1	Turning devices for rotatable members, e.g. shafts	
M	F16H 37/00	0	Combinations of mechanical gearings, not provided for in groups F16H 1/00 - F16H 35/00 (combinations of mechanical gearing with fluid clutches or fluid gearing F16H 47/00)	
M	F16H 37/12	1	Gearings comprising primarily toothed or friction gearing, links or levers, and cams, or members of at least two of these types (gearings with cranks, eccentrics, or like members fixed to one rotary member and guided along tracks on the other F16H 21/14; crank or eccentric gearings with cams or additional guides, or with members having rolling contact F16H 21/28, F16H 21/30)	

CPC NOTICE OF CHANGES 1040

DATE: FEBRUARY 1, 2021

PROJECT MP0482

<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	F16H 39/00	0	Rotary fluid gearing using pumps and motors of the volumetric type, i.e. passing a predetermined volume of fluid per revolution (control of exclusively fluid gearing F16H 61/38)	
M	F16H 39/01	1	Pneumatic gearing; Gearing working with subatmospheric pressure	
M	F16H 39/10	4	with cylinders arranged around, and parallel or approximately parallel to the main axis of the gearing	
M	F16H 41/32	1	Selection of working fluids	
M	F16H 45/00	0	Combinations of fluid gearings for conveying rotary motion with couplings or clutches (gearing systems consisting of a plurality of hydrokinetic units operating alternatively F16H 41/22 {, F16H 47/085})	
M	F16H 47/00	0	Combinations of mechanical gearing with fluid clutches or fluid gearing	
M	F16H 51/00	0	Levers of gearing mechanisms	
M	F16H 53/00	0	Cams {; Non-rotary cams;} or cam-followers, e.g. rollers for gearing mechanisms	
M	F16H 55/00	0	Elements with teeth or friction surfaces for conveying motion; Worms, pulleys or sheaves for gearing mechanisms (of screw-and-nut gearing F16H 25/00)	
M	F16H 55/14	2	Construction providing resilience or vibration-damping (F16H 55/06 takes precedence)	
M	F16H 55/22	2	for transmissions with crossing shafts, especially worms, worm-gears	
M	F16H 55/30	2	Chain-wheels	
M	F16H 55/32	1	Friction members	

CPC NOTICE OF CHANGES 1040

DATE: FEBRUARY 1, 2021

PROJECT MP0482

<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	F16H 55/36	2	Pulleys (with features essential for adjustment F16H 55/52)	
M	F16H 55/38	3	Means or measures for increasing adhesion	
M	F16H 57/01	1	Monitoring wear or stress of gearing elements, e.g. for triggering maintenance	
M	F16H 57/022	3	Adjustment of gear shafts or bearings (for compensating misalignment of axes of toothed gearings without orbital motion F16H 1/26; for compensating misalignment of axes of planetary gears F16H 1/48)	
M	F16H 57/023	2	Mounting or installation of gears or shafts in the gearboxes, e.g. methods or means for assembly	
M	F16H 57/025	2	Support of gearboxes, e.g. torque arms, or attachment to other devices	
M	F16H 57/027	2	characterised by means for venting gearboxes, e.g. air breathers	
M	F16H 57/029	2	characterised by means for sealing the gearboxes, e.g. to improve airtightness	
M	F16H 57/035	2	Gearboxes for gearing with endless flexible members	
M	F16H 57/05	2	of chains	
M	F16H 61/18	1	Preventing unintentional or unsafe shift {, e.g. preventing manual shift from highest gear to reverse gear}	
M	F16H 61/22	1	Locking {of the control input devices} (constructional features of locking or disabling mechanisms F16H 63/34)	
M	F16H 61/40	2	hydrostatic	
M	F16H 61/4061	3	Control related to directional control valves, e.g. change-over valves, for crossing the feeding conduits	

CPC NOTICE OF CHANGES 1040

DATE: FEBRUARY 1, 2021

PROJECT MP0482

<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	F16H 61/4069	3	Valves related to the control of neutral, e.g. shut off valves	
M	F16H 61/438	4	Control of forward-reverse switching, e.g. control of the swash plate causing discharge in two directions	
M	F16H 61/439	4	Control of the neutral position, e.g. by zero tilt rotation holding means	
M	F16H 61/456	4	Control of the balance of torque or speed between pumps or motors	
M	F16H 61/62	5	involving use of a speed-changing gearing or of a clutch in the connection between runners (F16H 61/60 takes precedence; combinations of fluid gearings for conveying rotary motion with mechanical clutches for bridging a fluid gearing of the hydrokinetic type F16H 45/02)	
M	F16H 61/66	1	specially adapted for continuously variable gearings (control of exclusively fluid gearing F16H 61/38)	
M	F16H 61/662	2	with endless flexible members	

*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.

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.

CPC NOTICE OF CHANGES 1040

DATE: FEBRUARY 1, 2021

PROJECT MP0482

- 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 finalisation 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.

CPC NOTICE OF CHANGES 1040

DATE: FEBRUARY 1, 2021

PROJECT MP0482

B. New, Modified or Deleted Warning(s)

SUBCLASS F16H - GEARING

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
M	F16H	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>Insert:</u> curly brackets around the existing Warning text so that it reads as follows. {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.}

*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.

CPC NOTICE OF CHANGES 1040

DATE: FEBRUARY 1, 2021

PROJECT MP0482

D. New, Modified or Deleted Guidance Heading(s)

SUBCLASS F16H - GEARING

<u>Type*</u>	<u>Location</u>	<u>Old Guidance Heading</u>	<u>New/Modified Guidance Heading</u>
M	F16H 21/00 - F16H 25/00	Gearing for conveying or converting motion by means of levers, links, or cams (combination of gearings of different types F16H 37/00)	Gearing for conveying or converting motion by means of levers, links, cams or screw-and-nut mechanisms
M	F16H 39/00 - F16H 49/00	Fluid gearing (fluid actuators F15B; couplings or clutches with a fluid or semi-fluid as power-transmitting means F16D 31/00 - F16D 39/00; fluid-resistance brakes F16D 57/00)	Fluid gearing
M	F16H 51/00 - F16H 57/00	Details of gearing or mechanisms (of screw-and-nut gearing F16H 25/00; of fluid gearing F16H 39/00 - F16H 43/00; shafts, Bowden mechanisms, cranks, eccentrics, bearings, pivotal, pivotal connections, crossheads, connecting-rods F16C; chains, belts F16G; piston-rods F16J 7/00)	Details of gearing or mechanisms

*N = new guidance heading, M =modified guidance heading, D = deleted guidance heading

NOTES:

- The “Location” column requires the symbol AFTER the guidance heading location. No further directions such as “before” or “after” are required.
- In cases where there may be confusion as to whether a new group falls within the scope of a guidance heading, indicate the guidance heading and whether the group does or does not go with the guidance heading. This can be included in the “Location” column. For example, the guidance heading “Compounds containing carbon together with sulfur, selenium or tellurium with or without hydrogen, halogens, oxygen or nitrogen” encompasses groups C07C 301/00-395/00 only. If a new group C07C 398/00 is proposed and is included in the guidance heading scope, indicate this in the “Location” column as follows: 398/00 to be included under the guidance heading: “Compounds containing carbon together with sulfur, selenium or tellurium with or without hydrogen, halogens, oxygen or nitrogen.”

2. A. DEFINITIONS (new)

Insert: The following new Definitions.

F16H 3/12

References

Informative references

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

Synchronised clutches	F16D 23/02
-----------------------	----------------------------

F16H 9/24

References

Informative references

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

Toothed belts	F16G 1/28
V-belts in the form of links	F16G 5/18
Toothed V-belts	F16G 5/20

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 21/04

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:

Guiding mechanisms for drawing-machines	B43L
---	----------------------

F16H 21/20

References

Informative references

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

Adjustable cranks or eccentrics	F16C 3/28
Adjustable connecting rods	F16C 7/06

F16H 25/10

References

Informative references

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

Adjustable cams	F16H 53/04
-----------------	----------------------------

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 25/12

References

Informative references

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

Screw mechanisms without automatic reversal	F16H 25/20
---	----------------------------

F16H 33/06

References

Informative references

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

Ratchet slip couplings	F16D 7/04
------------------------	---------------------------

F16H 35/12

References

Informative references

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

Vibration- or shock-dampers in general	F16F
--	----------------------

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 39/01

References

Informative references

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

Pneumatic hammers	B25D 9/00
-------------------	---------------------------

F16H 41/32

References

Informative references

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

Chemical aspects	see relevant classes
------------------	--------------------------------------

F16H 55/30

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:

Chain wheels specially adapted for cycles	B62M
---	----------------------

CPC NOTICE OF CHANGES 1040

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 55/32

References

Informative references

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

Friction surfaces	F16D 69/00
-------------------	----------------------------

F16H 55/38

References

Informative references

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

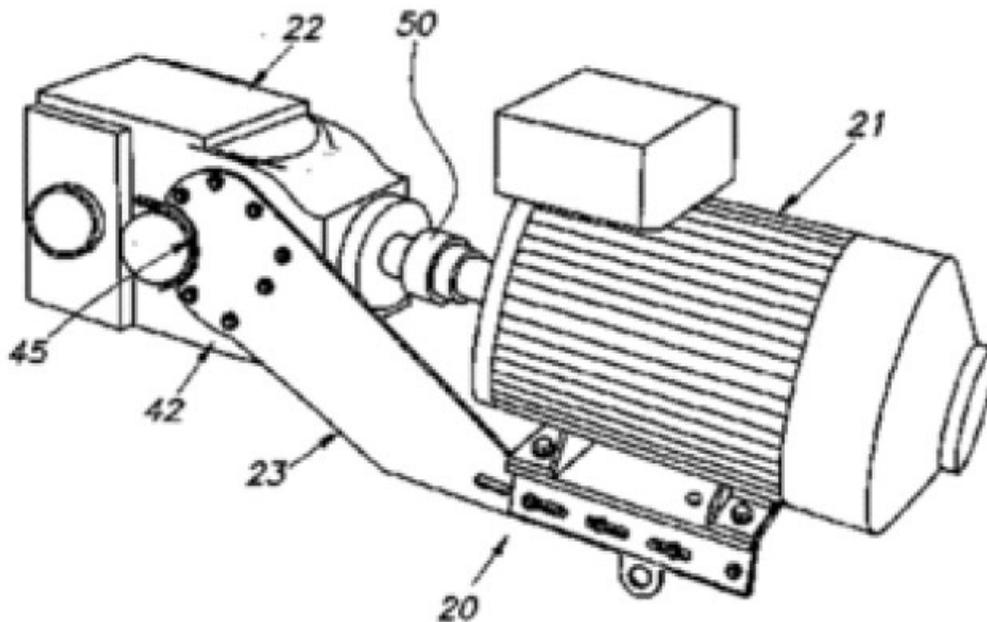
Means or measures for increasing adhesion in general	F16D 69/00
--	----------------------------

F16H 57/025

Definition statement

This place covers:

Means for supporting gearboxes or attaching them to other devices in order to prevent the casing from being moved due to reaction forces or torques produced by the gearing, e.g. torque arms (see the figure below).



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:

Mounting of transmissions in vehicles

B60K 17/00

CPC NOTICE OF CHANGES 1040

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 57/05

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:

Features relating to lubrication or cooling of chains for conveyors	B65G 45/08
---	----------------------------

DATE: FEBRUARY 1, 2021

PROJECT MP0482

2. A. DEFINITIONS (modified)

F16H 7/00

References

Informative references

Replace: The text of the second existing row within the Informative references table so that the row reads as follows.

Endless flexible members per se, e.g. belts, V-belts, ropes, cables, and chains	F16G
---	------

F16H 9/00

References

Limiting references

Delete: The following two rows from the Limiting references table.

Combinations of gearing conveying rotary motion by endless members and toothed gearing	F16H 37/00
Pulleys per se	F16H 55/52

Informative references

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

Gearings for conveying rotary motion by endless flexible members with fixed gear ratio	F16H 7/00
--	-----------

CPC NOTICE OF CHANGES 1040

DATE: FEBRUARY 1, 2021

PROJECT MP0482

Endless flexible members per se, e.g. belts or chains	F16G
Combinations of gearing conveying rotary motion by endless members and toothed gearing	F16H 37/00
Pulleys per se	F16H 55/52

F16H 13/00

References

Delete: The entire existing 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:

Friction gearings for conveying rotary motion with variable gear ratio or for reversing rotary motion	F16H 15/00
---	------------

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 19/00

References

Limiting references

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

Gearings with intermittently-driving members	F16H 27/00 - F16H 31/00
--	----------------------------

Insert: The following new Application-oriented references section.

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:

Rope or like tackle for lifting or haulage	B66D 3/00
--	-----------

Delete: The entire existing Informative references section.

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 27/00

Definition statement

Replace: The misspelled word “interrupted” in the second bullet point of the Definition statement with the correctly spelled “interrupted,” so that the Definition text reads as follows.

- Step-by-step mechanisms using mechanisms with driving pins in driven slots, e.g. Geneva drives.
- Step-by-step mechanisms using gears with interrupted toothings.
- Step-by-step mechanisms using an reciprocating or oscillating transmission member.

References

Delete: The entire existing Application-oriented references section.

Informative references

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

Impulse couplings	F16D 5/00
Rotary gearings with cyclically-varying velocity ratio	F16H 35/02
Clockwork escapements	G04B 15/00

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 31/00**Definition statement**

Replace: The typo “an other” with “another” so that the Definition statement text reads as follows.

Gearings for converting oscillating, i.e. non continuous rotary input, or reciprocating movement with freewheeling members or other intermittently-driving members into another movement, e.g. a step by step movement.

References***Limiting references***

Delete: The following two rows from the Limiting references table.

Gearings using freewheel members for changing ratio	F16H 3/00
Gearings for conveying rotary motion with intermittently-driving members or freewheel action	F16H 29/00

Informative references

Insert: The following three new rows into the Informative references table.

Gearings using freewheel members for changing ratio	F16H 3/00
Gearings for conveying rotary motion with intermittently-driving members or freewheel action	F16H 29/00
Gearings involving the use of automatic changing-mechanisms, e.g. cyclically-actuated reversal gearings	see the appropriate groups

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 35/02**References*****Informative references***

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

Gearings converting continuous rotation into a step-by-step rotary movement without freewheeling members	F16H 27/04
Eccentric mounted gears in gearings	F16H 2035/001
Pulleys or toothed members of non-circular shape, e.g. elliptic gears	F16H 2035/003
Speed-changing mechanisms operating cyclically	see the appropriate groups

F16H 35/10**References*****Limiting references***

Delete: The following two rows from the Limiting references table.

Slip couplings, e.g. slipping on overload	F16D 7/00
Couplings with safety member for disconnecting	F16D 9/00

DATE: FEBRUARY 1, 2021

PROJECT MP0482

Insert: The following new Application-oriented references section.

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:

Arrangements of torque limiters in wrenches or screwdrivers	B25B 23/14
---	----------------------------

Informative references

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

Couplings for transmitting rotation	F16D
Monitoring wear or stress of transmission elements, e.g. for triggering maintenance	F16H 57/01
Monitoring of overload conditions	F16H 2057/016
Detection of mechanical transmission failures	F16H 2057/018

F16H 35/16

References

Delete: The entire existing Application-oriented 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:

Devices in which computing operations are performed mechanically	G06G 3/00
--	---------------------------

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 35/18

References

Delete: The entire existing Limiting references section.

Insert: The following new Application-oriented references section.

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:

Starting devices for internal-combustion engines	F02N
--	------

F16H 37/00

References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Combinations of mechanical gearing with fluid clutches or fluid gearing	F16H 47/00
---	------------

Application-oriented references

Insert: The following new row into the Application-oriented references table.

Applications of underdrives or overdrives in motor vehicles, combinations with differential gearings in motor vehicles	B60K
--	------

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 37/12**Informative references**Insert: The following new row into the Informative references table.

Toothed or friction gearing or cam gearing with only an additional lever or link	see the appropriate group for the main gearing
--	--

F16H 39/00**References****Limiting references**Replace: The existing Limiting references table with the following modified table.

Control of exclusively fluid gearing	F16H61/38
--------------------------------------	---------------------------

Insert: The following new Application-oriented references section.**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:

Application to lifting or pushing equipment	B66F
Application to motor vehicles	B60K

Informative referencesReplace: The existing Informative references table with the following modified table.

Pneumatic hammers	B25D 9/00
Fluid couplings or clutches with pumping sets of volumetric type	F16D 31/00

DATE: FEBRUARY 1, 2021

PROJECT MP0482

Details of fluid pumps of motors	F04B , F04C
----------------------------------	---

F16H 41/00**References*****Limiting references***

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

Control of exclusively fluid gearing	F16H 61/38
--------------------------------------	----------------------------

Insert: The following new Informative references section.

Informative references

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

Rotary fluid couplings or clutches of the hydrokinetic type	F16D 33/00
Lock-up clutches of torque converters	F16H 45/02
Fluid gearing combined with mechanical gearing	F16H 47/00
Control of torque converter lock-up clutches	F16H 61/14

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 45/00**References*****Limiting references***Replace: The existing Limiting references table with the following new table.

Gearing systems consisting of a plurality of hydrokinetic units operating alternatively	F16H 41/22
Fluid gearing with at least two mechanical connections between the hydraulic device and the mechanical transmissions	F16H 47/085

Insert: The following new Application-oriented references section.***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:

Conjoint control of driveline clutches and change-speed gearing in vehicles	B60W 10/02 , B60W 10/10 , B60W 30/18
---	--

Informative referencesInsert: The following new table row into the Informative references table.

Control of torque converter lock-up clutches	F16H 61/14
--	----------------------------

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 47/00**References**

Delete: The entire existing Limiting references section.

Insert: The following new Application-oriented references section.

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:

Conjoint control of driveline clutches and change-speed gearing in vehicles	B60W 10/02 , B60W 10/10
Conjoint control of clutch and gearing for propulsion of vehicles	B60W 30/18

Informative references

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

Control of torque converter lock-up clutches	F16H 61/14
--	----------------------------

Special rules of classification

Replace: The text of the Special rules of classification section with the following new text.

Control means for shifting of combinations of mechanical and fluid gearing are also included in this group and subgroups (no reorganisation had been performed in group [F16H 47/00](#) related to subjects of [F16H 61/00](#))

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 51/00

References

Delete: The entire existing Limiting references section.

Informative references

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

Shafts, Bowden mechanisms, cranks, eccentrics, bearings, pivotal connections, crossheads, connection-rods	F16C
Transmissions with cams	F16H 25/00
Manipulating levers	G05G
Gear levers for transmission control	F16H 59/00

F16H 53/00

References

Insert: The following new Application-oriented references section.

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:

Cams specially adapted for reciprocating-piston liquid engines	F03C 1/0463
--	-------------

Informative references

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

CPC NOTICE OF CHANGES 1040

DATE: FEBRUARY 1, 2021

PROJECT MP0482

Shafts, Bowden mechanisms, cranks, eccentrics, bearings, pivotal connections, crossheads, connection-rods	F16C
---	------

F16H 55/00

References

Limiting references

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

Of screw-and-nut gearing	F16H 25/00
--------------------------	------------

Delete: The entire Application-oriented 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:

Pulleyblocks for lifting or hauling appliances	B66D 3/04
Shafts, Bowden mechanisms, cranks, eccentrics, bearings, pivotal connections, crossheads, connecting-rods	F16C
Chains, belts	F16G
Details of fluid gearing	F16H 39/00 - F16H 43/00

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 55/14**References**

Delete: The entire existing Application-oriented references section.

Informative references

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

Resilient coupling of wheel or wheel-rim with the shaft	F16D 3/50, F16D 3/80
Devices for varying tension of belts, ropes or chains with vibration damping means	F16H 7/0829
Vibration-damping or noise reducing means specially adapted for gearings	F16H 57/0006
Reducing vibrations or noise of the gearbox casing	F16H 57/028
Suppression of vibrations or noise of gear selectors or gear levers	F16H 59/0208
Control of hydrostatic fluid gearing preventing or reducing vibrations or noise	F16H 61/4183

F16H 55/22**References*****Informative references***

Delete: The conjunction “or” from the second row of the Informative references table so that the row reads as follows.

Bevel gears, crown wheels, helical gears	F16H 55/17
--	------------

Delete: The entire existing Special rules of classification section.

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 61/18

References

Informative references

Replace: The third existing row within the Informative references section with the following modified row.

Constructional features of the final output mechanism for reverse gear	F16H 63/30
--	------------

F16H 61/4061

Insert: The following new Informative references section.

Informative references

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

Forward reverse switching by using swash plate	F16H 61/438
--	-------------

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 61/4069

Insert: The following new Informative references section.

Informative references

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

Zero tilt rotation holding means	F16H 61/439
----------------------------------	-----------------------------

F16H 61/438

Insert: The following new Informative references section.

Informative references

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

Using a directional control valve	F16H 61/4061
-----------------------------------	------------------------------

F16H 61/439

Insert: The following new Informative references section.

Informative references

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

Using a neutral valve or a shutoff valve	F16H 61/4069
--	------------------------------

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 61/456

Insert: The following new Informative references section.

Informative references

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

Hydrostatic differentials	F16H 48/18
---------------------------	----------------------------

F16H 61/66

Insert: The following new Informative references section.

Informative references

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

Orbital toothed gearings with a secondary drive in order to vary the speed continuously	F16H 3/72
---	---------------------------

CPC NOTICE OF CHANGES 1040

DATE: FEBRUARY 1, 2021

PROJECT MP0482

F16H 61/662

References

Delete: The entire existing 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:

Layout of CVT gearings using endless flexible members	F16H 9/00
Actuators, e.g. for adjusting pulleys	F16H 63/06