

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 993

DATE: JANUARY 1, 2021

PROJECT MP0479

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:	B21C	1/12, 1/14, 1/24, 1/28
	B21C	3/16
	B21C	23/01, 23/21, 23/32
	B21C	31/00
	B21C	35/03
	B21C	37/00, 37/06, 37/08, 37/0815, 37/108, 37/122, 37/22
	B21C	47/00, 47/04, 47/28
Guidance Headings Modified:	B21C	1/00 - 19/00
	B21C	23/00 - 43/00
DEFINITIONS:		
Definitions New:	B21C	3/16
	B21C	23/21
	B21C	35/03
	B21C	37/06, 37/08, 37/0815, 37/108, 37/122, 37/22
	B21C	47/04, 47/28
Definitions Modified:	B21C	1/12, 1/24, 1/28
	B21C	31/00
	B21C	37/00
	B21C	47/00

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)

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- 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 B21C - MANUFACTURE OF METAL SHEETS, WIRE, RODS, TUBES OR PROFILES, OTHERWISE THAN BY ROLLING; AUXILIARY OPERATIONS USED IN CONNECTION WITH METAL-WORKING WITHOUT ESSENTIALLY REMOVING MATERIAL

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	B21C 1/12	2	Regulating or controlling speed of drawing drums, e.g. to influence tension; Drives; Stop or relief mechanisms	
M	B21C 1/14	2	Drums, e.g. capstans; Connection of grippers thereto; Grippers specially adapted for drawing machines or apparatus of the drum type; Couplings specially adapted for these drums	
M	B21C 1/24	3	by means of mandrels	
M	B21C 1/28	3	Carriages; Connections of grippers thereto; Grippers	
M	B21C 3/16	1	Mandrels; Mounting or adjusting same	
M	B21C 23/01	1	starting from material of particular form or shape, e.g. mechanically pre-treated (B21C 23/22 takes precedence)	
M	B21C 23/21	1	Presses specially adapted for extruding metal	
M	B21C 23/32	1	Lubrication of metal being extruded or of dies, or the like, e.g. physical state of lubricant, location where lubricant is applied	
M	B21C 31/00	0	Control devices, e.g. for regulating the pressing speed or temperature of metal (B21C 25/08 takes precedence); Measuring devices, e.g. for temperature of metal, combined with or specially adapted for use in connection with extrusion presses	
M	B21C 35/03	2	Straightening the work	
M	B21C 37/00	0	Manufacture of metal sheets, bars, wire, tubes or like semi-manufactured products, not otherwise provided for; Manufacture of tubes of special shape	
M	B21C 37/06	1	of tubes or metal hoses; Combined procedures for making tubes, e.g. for making multi-wall tubes	

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<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	B21C 37/08	2	Making tubes with welded or soldered seams {(with helically arranged seams B21C 37/122)}	
M	B21C 37/0815	3	{without continuous longitudinal movement of the sheet during the bending operation}	
M	B21C 37/108	3	{without continuous longitudinal movement of the sheet during the bending operation}	
M	B21C 37/122	3	{with welded or soldered seams}	
M	B21C 37/22	3	Making finned or ribbed tubes by fixing strip or like material to tubes	
M	B21C 47/00	0	Winding-up, coiling or winding-off metal wire, metal band or other flexible metal material characterised by features relevant to metal processing only (coiling wire into particular forms B21F 3/00)	
M	B21C 47/04	2	on or in reels or drums, without using a moving guide	
M	B21C 47/28	1	Drums or other coil-holders	

*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.
- 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”.

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- 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 (“T transferred to”) symbol, however it is required to specify “<no transfer>” in the “T transferred to” column for such cases.
- For finalisation projects, the deleted “F” symbols should have <no transfer> in the “T transferred to” column.
- For more details about the types of scheme change, see CPC Guide.

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

SUBCLASS B21C - MANUFACTURE OF METAL SHEETS, WIRE, RODS, TUBES OR PROFILES, OTHERWISE THAN BY ROLLING; AUXILIARY OPERATIONS USED IN CONNECTION WITH METAL-WORKING WITHOUT ESSENTIALLY REMOVING MATERIAL

<u>Type*</u>	<u>Location</u>	<u>Old Guidance Heading</u>	<u>New/Modified Guidance Heading</u>
M	B21C 1/00 - B21C 19/00	Metal-drawing (continuous casting B22D 11/00; pressure welding by means of a rolling mill B23K 20/04)	Metal drawing
M	B21C 23/00 - B21C 43/00	Metal extruding (continuous casting B22D 11/00)	Metal extruding

*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.”

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2. A. DEFINITIONS (new)

Insert: The following new Definitions.

B21C 3/16

References

Informative references

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

Separating mandrels from work	B21C 45/00
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B21C 23/21

References

Informative references

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

Extrusion presses in general	B30B 11/22
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B21C 35/03**References****Informative references***Attention is drawn to the following places, which may be of interest for search:*

Metal straightening in general	B21D
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B21C 37/06**References****References out of a residual place***Examples of places in relation to which this place is residual:*

Bending sheets for making tubes	B21D 5/00
Seaming by folding	B21D 39/02

B21C 37/08**References****Limiting references***This place does not cover:*

With helically arranged seams	B21C 37/122
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References out of a residual place*Examples of places in relation to which this place is residual:*

Involving only a soldering or welding operation	B23K
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B21C 37/0815

References

Informative references

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

Sheet bending in general	B21D
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B21C 37/108

References

Informative references

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

Sheet bending in general	B21D
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B21C 37/122

References

Informative references

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

Welding and soldering helically arranged seams per se	B23K
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B21C 37/22

References

References out of a residual place

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

Making heat exchangers	B21D 53/02
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B21C 47/04

References

Informative references

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

Reels or drums	B21C 47/28
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B21C 47/28

References

Informative references

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

Gripping means	B21C 47/32
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2. A. DEFINITIONS (modified)

B21C 1/12

References

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:

Couplings for drums	B21C 1/14
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B21C 1/24

References

Delete: The entire Limiting references section.

Informative references

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

Insert: The following new reference in the Informative references table.

Mandrels	B21C 3/16
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B21C 1/28

References

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:

Grippers for drawing machines of the drum type	B21C 1/14
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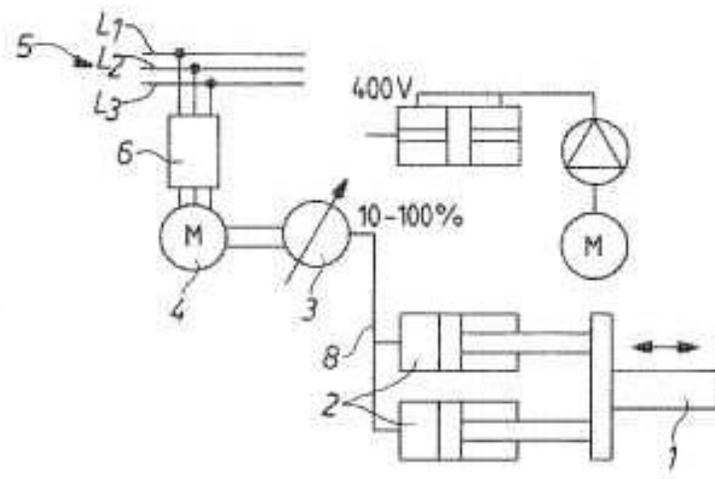
B21C 31/00

Definition statement

This place covers:

Control devices, e.g. for regulating the pressing speed or temperature of metal;
 Measuring devices, e.g. for temperature of metal, combined with or specially adapted for use in connection with extrusion presses.

Delete: The text “Fig. 1” and “EP2361700” from the figure below.



References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Controlling variation	B21C 25/08
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References

Delete: The entire Informative references section.

Insert: The following new References out of a residual place section.

References out of a residual place

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

Metal extrusion devices and methods	B21C 23/00
Manufacture by rolling	B21B
Manufacture by working or processing semi-finished sheet metal, profiles, tubes or wire	B21D
Bending of metal sheet along straight lines	B21D 5/00
Manufacture by working or processing semi-finished sheet metal, profiles, tubes or wire	B21F
Manufacture by casting	B22
Manufacture by material-removing machine tools	B23
Manufacture by welding, e.g. cladding or plating	B23K
Manufacture of metallic fibers	B23P 17/06
Manufacture by grinding or polishing	B24
Manufacture by electroforming	C25D 1/00

B21C 47/00

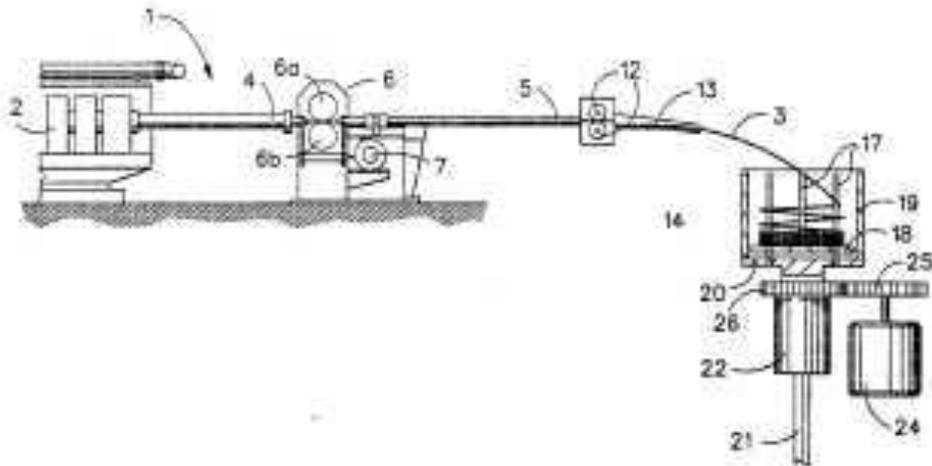
Definition statement

This place covers:

Methods and devices for coiling (winding) and uncoiling (unwinding) of metal wire, band or similar metal product.

Associated operations, like feeding or guiding the material, transferring coils, joining wire or band ends, treating the material, holding on drums or coil holders.

Delete: The text "US5170653" from the figure below.



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References

Insert: The following new Limiting references section.

Limiting references

This place does not cover:

Coiling wire into particular form	B21F 3/00
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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:

Hot coilers in connection with heat-treatment apparatus	C21D 9/68
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Informative references

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

Delete: The following two references from the Informative references table.

Coiling wire into particular form	B21F 3/00
Furnace coilers, hot coilers	C21D 9/68