

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 877

DATE: MAY 1, 2020

PROJECT DP0201

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

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
DEFINITIONS:		
Definitions New:	B21C	1/003, 1/006, 1/02, 1/04, 1/06, 1/08, 1/10, 1/12, 1/14, 1/16, 1/18, 1/20, 1/22, 1/24, 1/26, 1/27, 1/28, 1/30, 1/305, 1/32, 1/34
	B21C	23/001
Definitions Modified:	B21C	1/00

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

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

3. REVISION CONCORDANCE LIST (RCL)

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

5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)

2. A. DEFINITIONS (new)

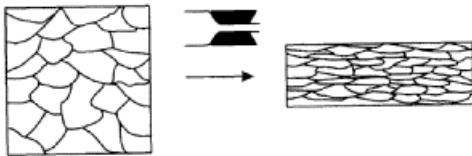
Insert: The following new definitions.

B21C 1/003

Definition statement

This place covers:

All aspects relating to drawing special alloys with the purpose, for example, of modifying the physical properties of such alloys, and all special drawing methods.



References

Informative references

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

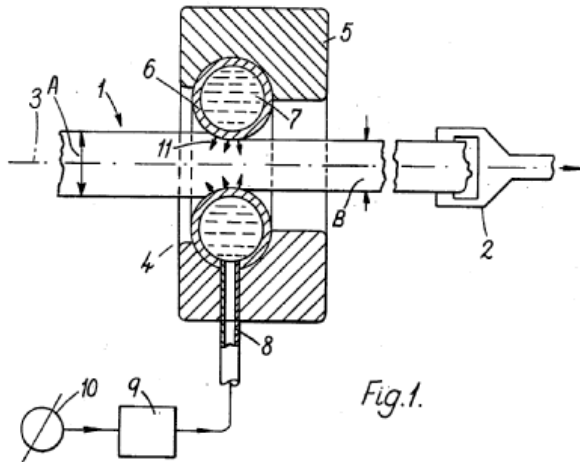
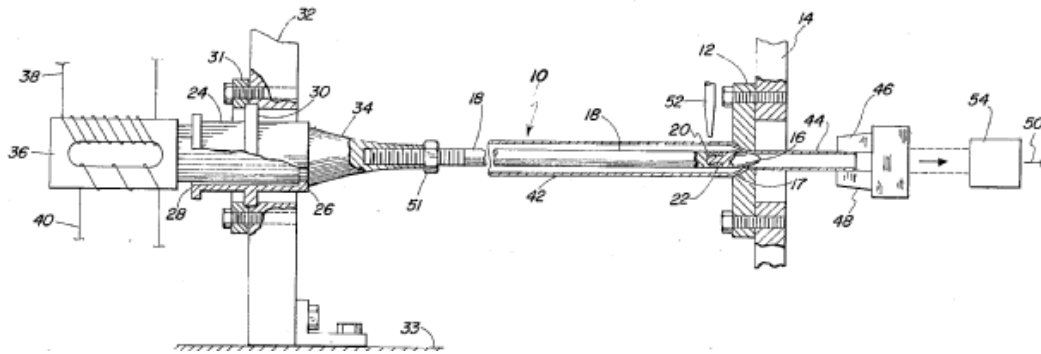
Modifying the physical properties by deformation during manufacturing of ferrous alloys rods or wires	C21D 8/065
Changing the physical structure of non-ferrous metals or alloys by heat treatment or by hot or cold working	C22F 1/00
Ropes or cables built-up from metal wires, e.g. of section wires around a hemp core, the wires being characterised by an anticorrosive or adhesion promoting coating	D07B 1/0666

B21C 1/006

Definition statement

This place covers:

All aspects relating to drawing metal sheets, metal wire, metal rods, metal tubes applying vibratory energy, for example, to the mandrel and/or the dies.



B21C 1/02

Definition statement

This place covers:

All aspects relating to the drawing action effected by drums.

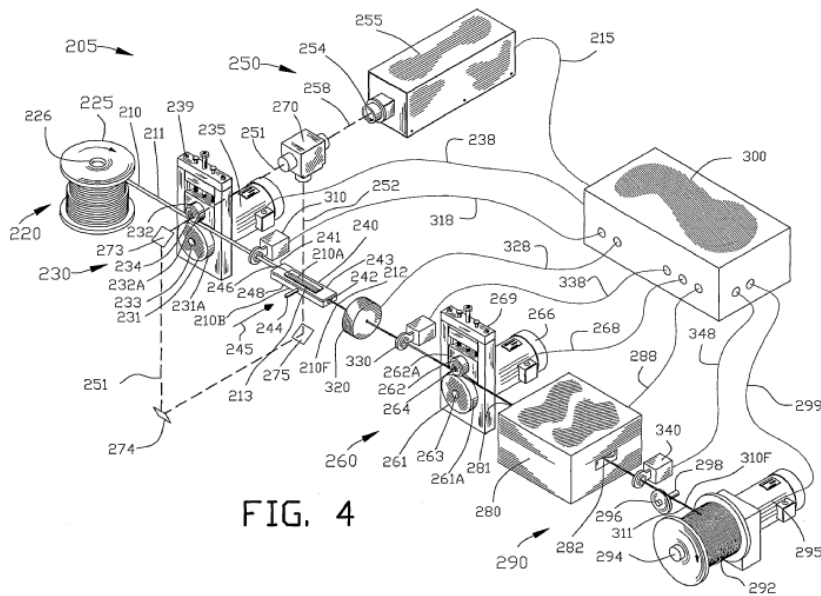
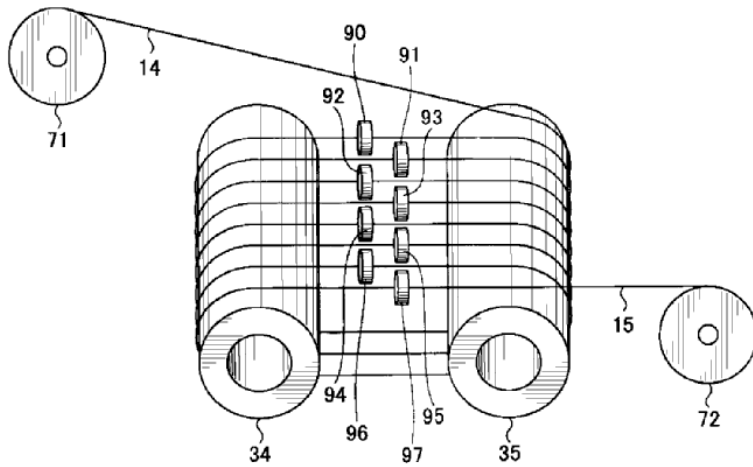


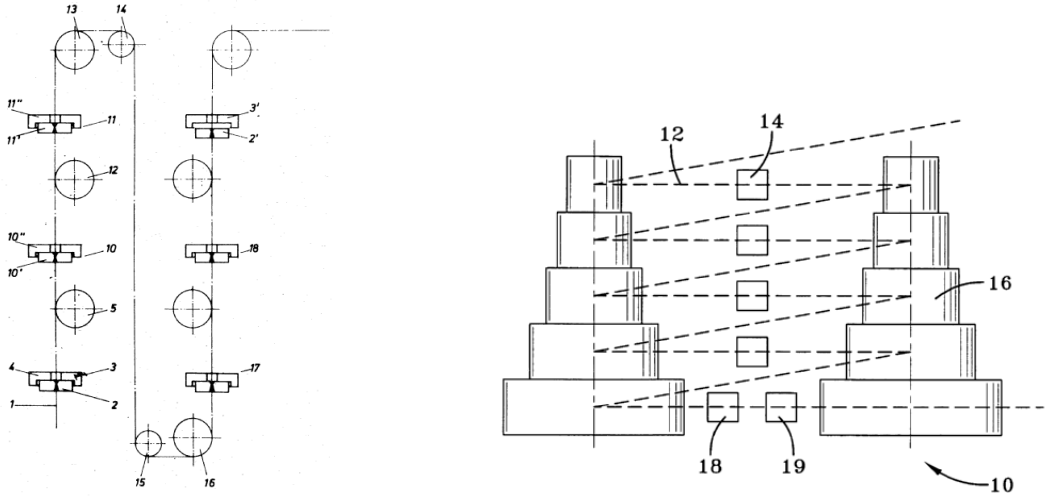
FIG. 4

B21C 1/04

Definition statement

This place covers:

All aspects relating to drawing dies operating in series.

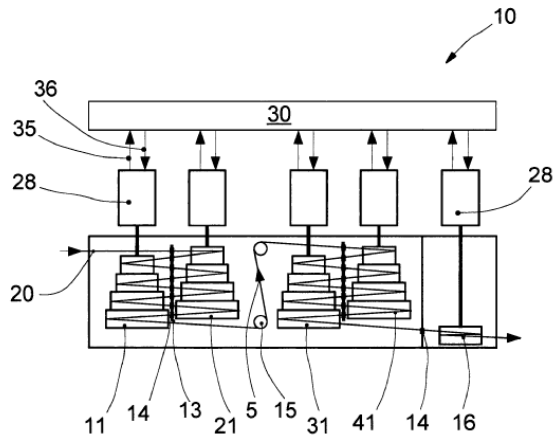


B21C 1/06

Definition statement

This place covers:

All aspects relating to wire drawing devices and methods whereby positive slip insures that all portions of the wire are taut and that there is adequate frictional force exerted on the wire by the drums to pull the wire through the dies.

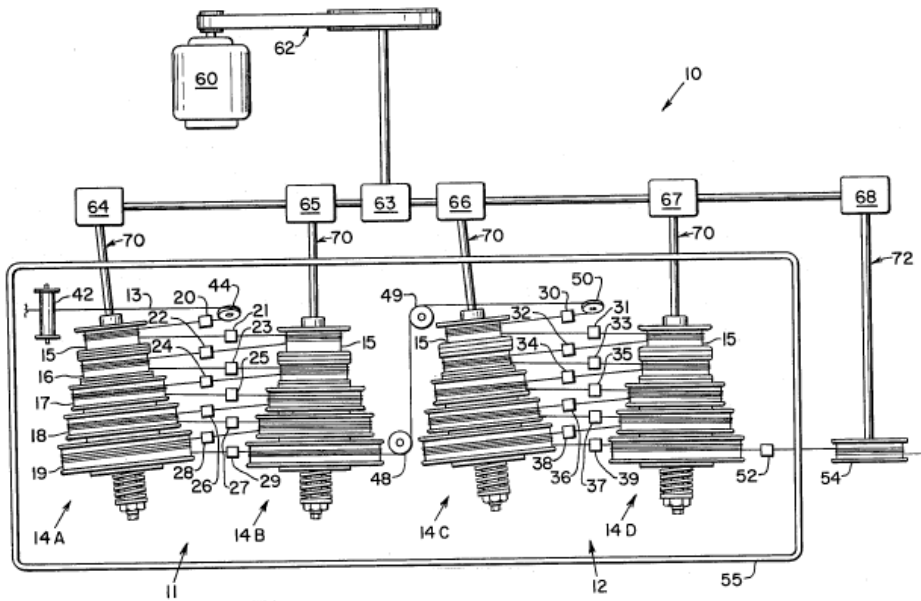


B21C 1/08

Definition statement

This place covers:

All aspects relating to wire drawing devices and methods whereby wire slips on the drawing drums are eliminated.

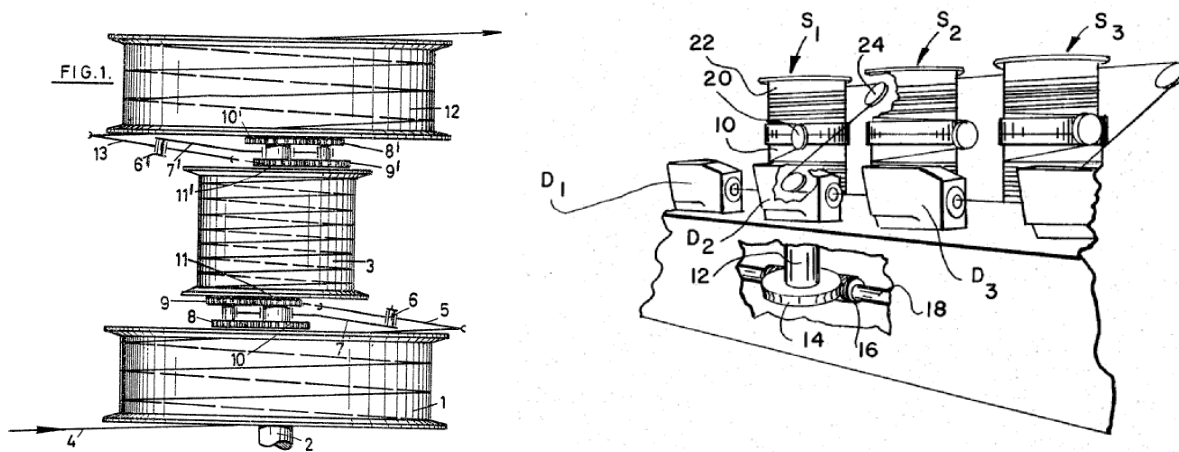


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B21C 1/10**Definition statement***This place covers:*

All aspects relating to wire drawing devices and methods whereby a certain amount of wire is accumulated in order, for example, to allow steady operation of the machine, even though the speeds of the various drums are not in exact proportion to the elongation of the wire.

**References****Informative references**

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

Devices for temporarily storing filamentary material during forwarding, e.g. for buffer storage

B65H 51/20

B21C 1/12

Definition statement

This place covers:

All aspects relating to wire drawing devices and methods, whereby drums are controlled to apply the correct tension on the wire.
 Details of drives for drums.
 Stop or relief mechanisms.

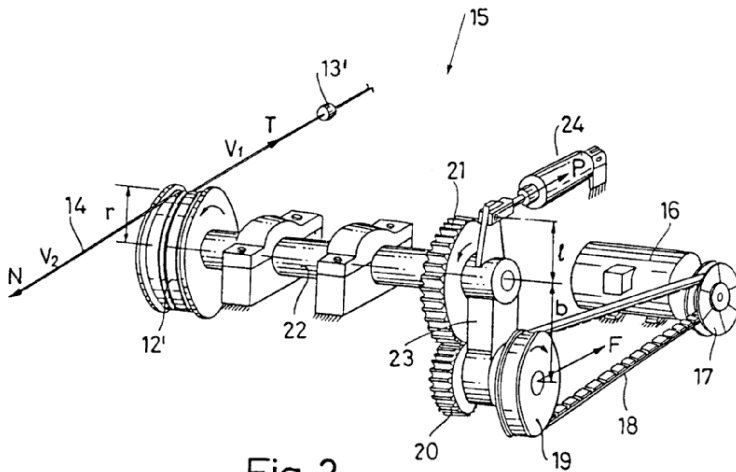
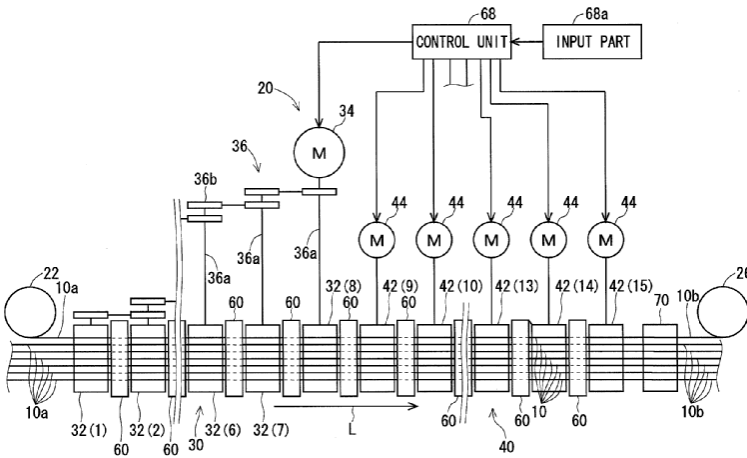


Fig.2

References

Limiting references

This place does not cover:

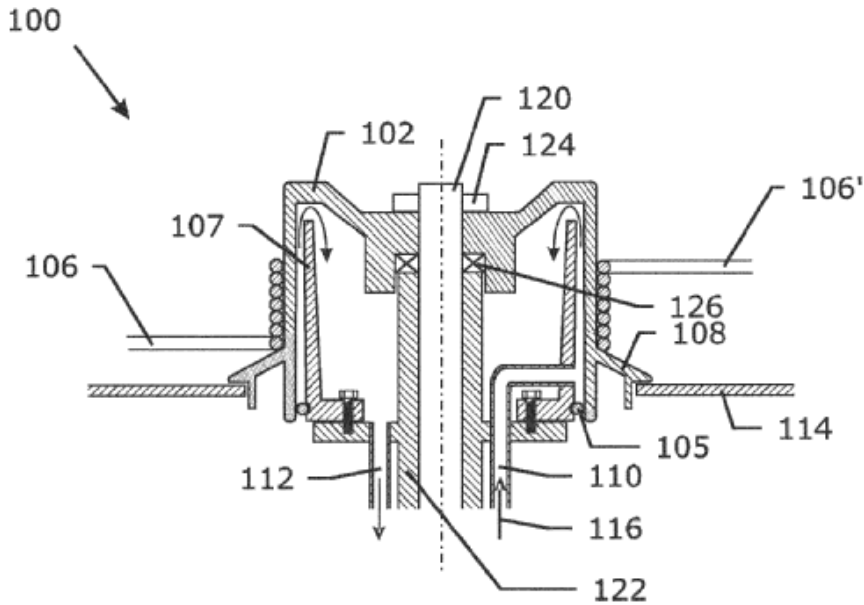
Drums, e.g. capstans; Connection of grippers; Grippers specially adapted for drawing machines or apparatus of the drum type; Couplings specially adapted for these drums	B21C 1/14
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B21C 1/14

Definition statement

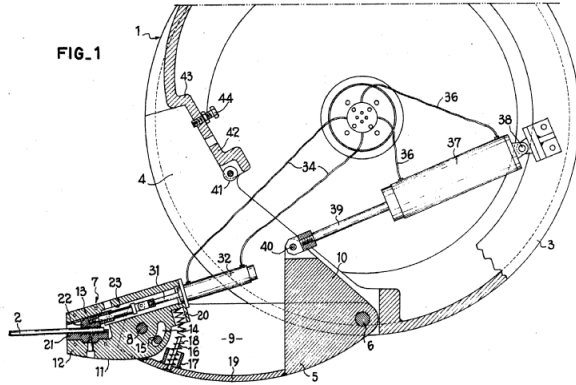
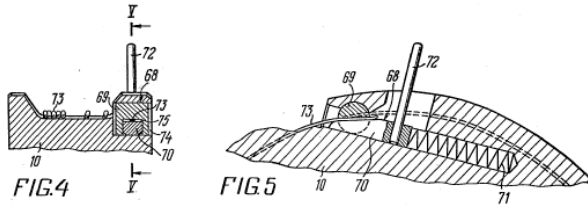
This place covers:

All aspects relating to wire drawing capstans and gripping means cooperating with said capstans.



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References

Informative references

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

Capstans or winches in general	B66D
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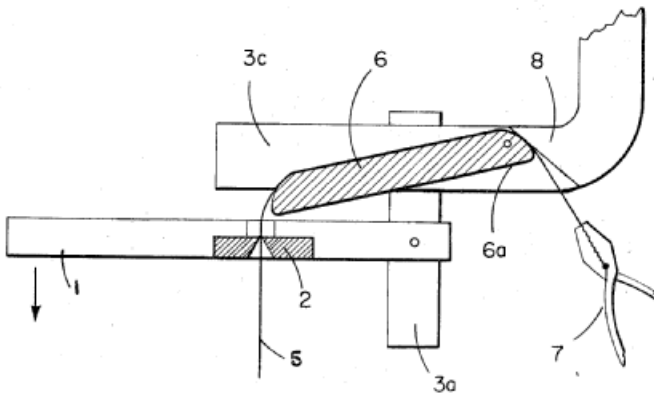
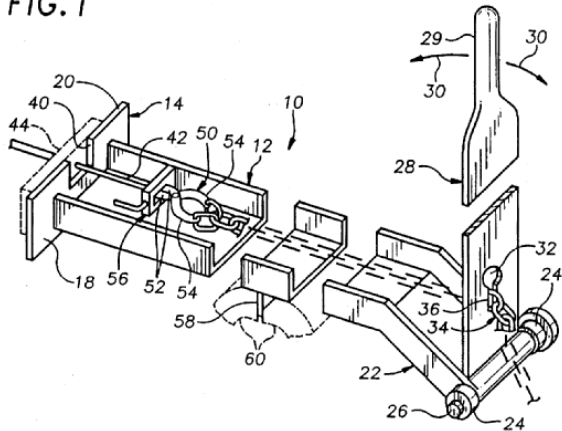
B21C 1/16

Definition statement

This place covers:

All aspects relating to metal drawing devices and methods not provided in the sub-groups.

FIG. 1

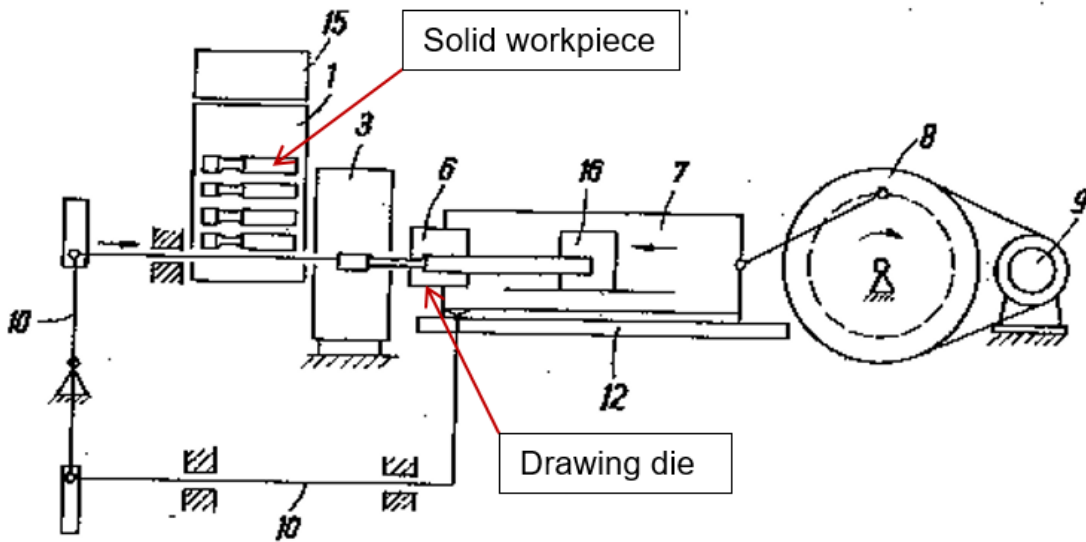


B21C 1/18

Definition statement

This place covers:

All aspects relating to drawing devices and methods from solid stocks of limited length.



References

Limiting references

This place does not cover:

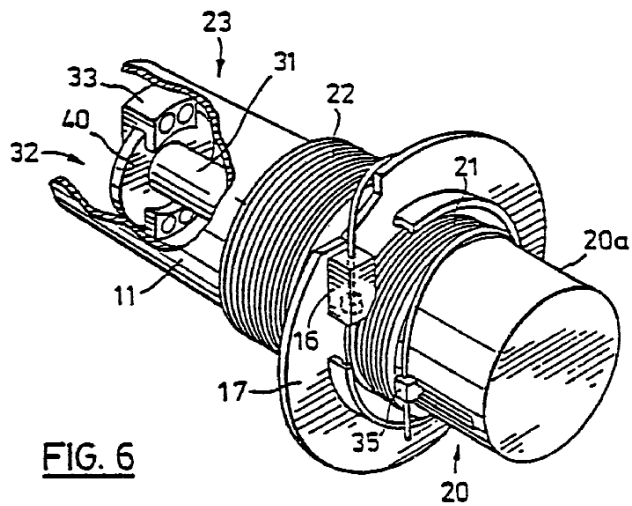
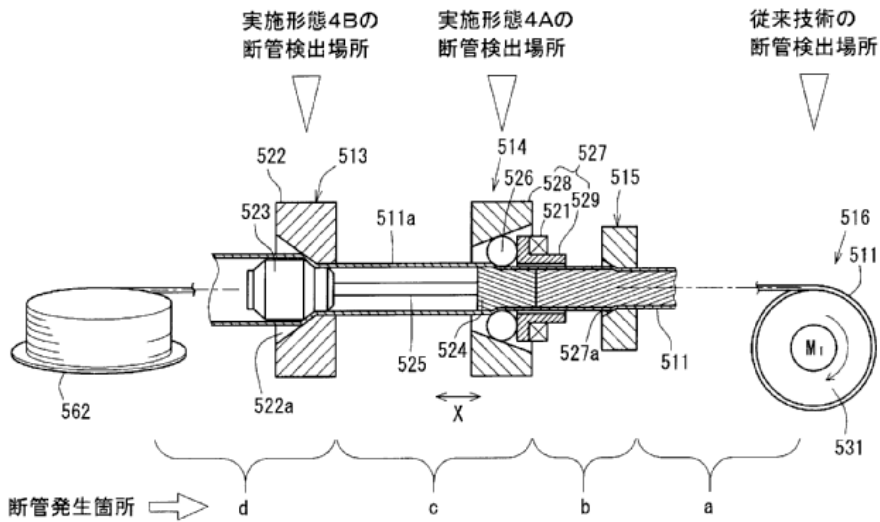
Metal drawing by machines specially adapted for making tubular articles	B21C 1/22
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B21C 1/20

Definition statement

This place covers:

All aspects relating to drawing devices and methods from stock of unlimited length.



References

Limiting references

This place does not cover:

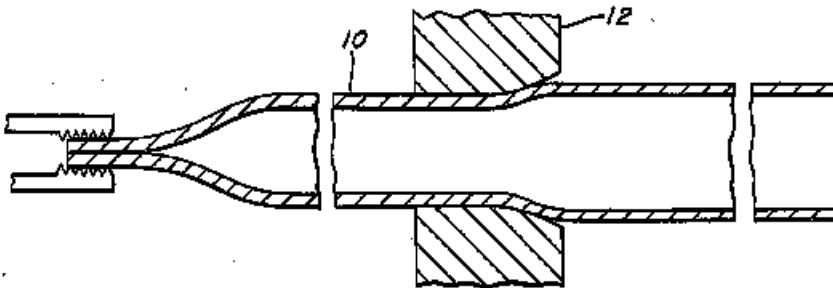
Metal drawing by machines specially adapted for making tubular articles	B21C 1/22
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B21C 1/22

Definition statement

This place covers:

All aspects relating to drawing devices and methods specially adapted for making tubular articles, also starting from stock of limited length.



References

Informative references

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

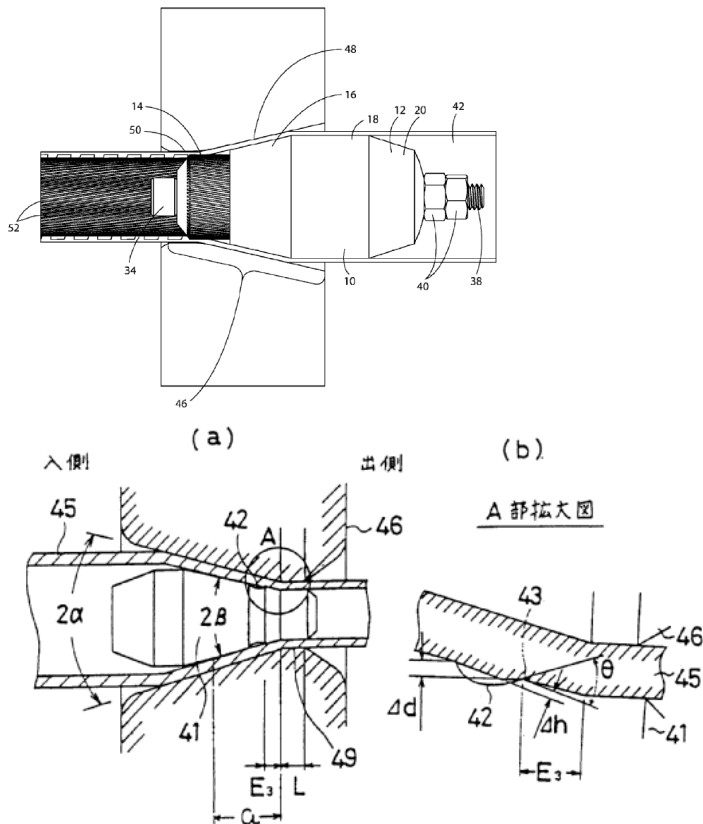
Tube-rolling not restricted to methods provided for in only one of groups B21B17/00, B21B19/00, B21B21/00, e.g. combined processes	B21B 23/00
Bending sheet metal along straight lines, e.g. to form simple curves for making tubes	B21D 5/10
Rigid pipes wound from sheets or strips, with or without reinforcement, made of metal	F16L 9/165

B21C 1/24

Definition statement

This place covers:

All aspects relating to drawing devices and methods specially adapted for making tubular articles by means of mandrels.



References

Limiting references

This place does not cover:

Mandrels; Mounting or adjusting same	B21C 3/16
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Informative references

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

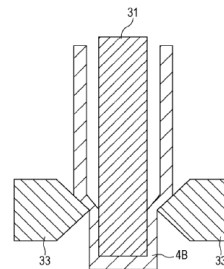
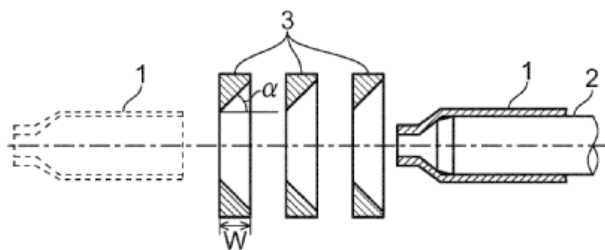
Making helical or similar guides in or on tubes without removing material, e.g. by drawing same over mandrels, by pushing same through dies; {Making tubes with angled walls, ribbed tubes and tubes with decorated walls}	B21C 37/20
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B21C 1/26

Definition statement

This place covers:

All aspects relating to drawing devices and methods specially adapted for making tubular articles by means of mandrels by push-bench drawing.



References

Informative references

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

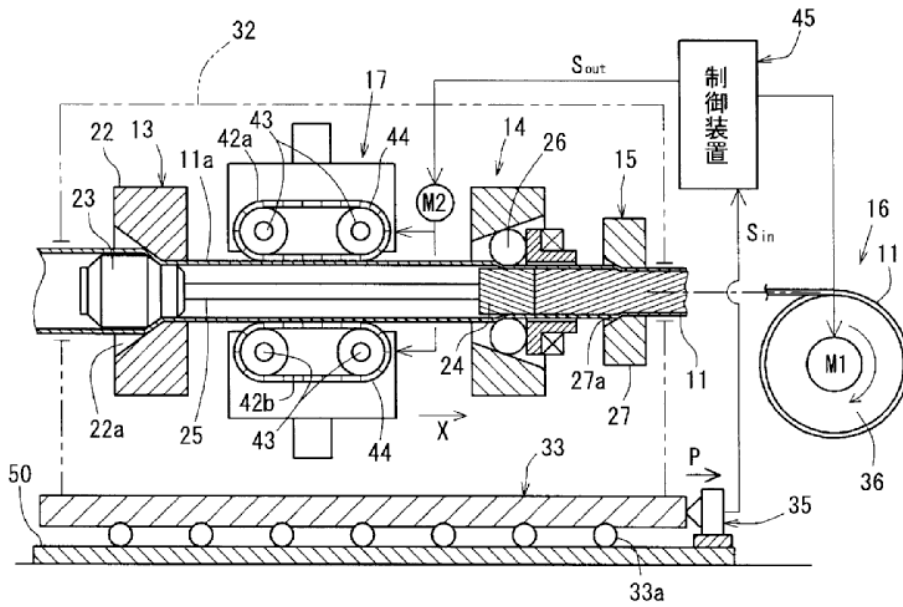
Tube-rolling not restricted to methods provided for in only one of groups B21B17/00, B21B19/00, B21B21/00, e.g. combined processes	B21B 23/00
Shaping without cutting, by deep-drawing	B21D 22/20
Mandrels; Mounting or adjusting same	B21C 3/16

B21C 1/27

Definition statement

This place covers:

All aspects relating to drawing carriages and drives.

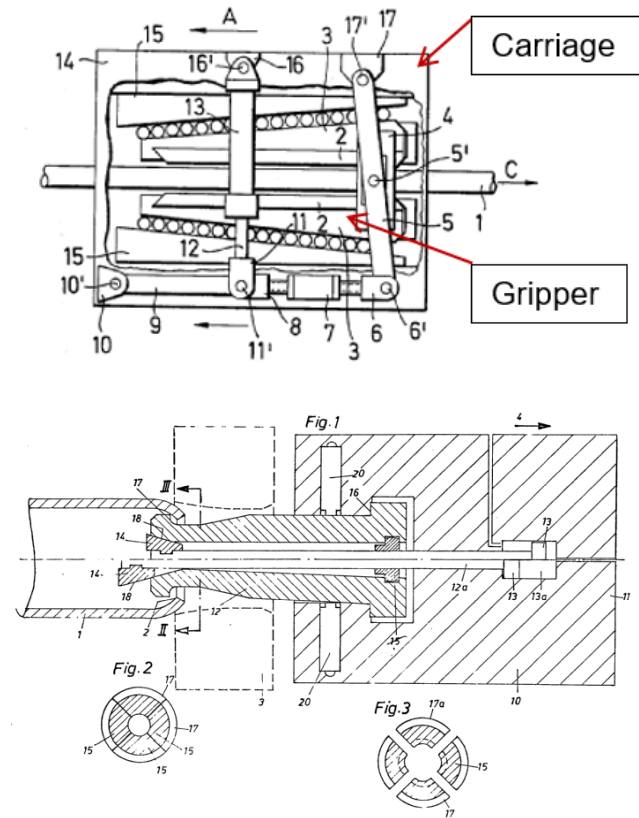


B21C 1/28

Definition statement

This place covers:

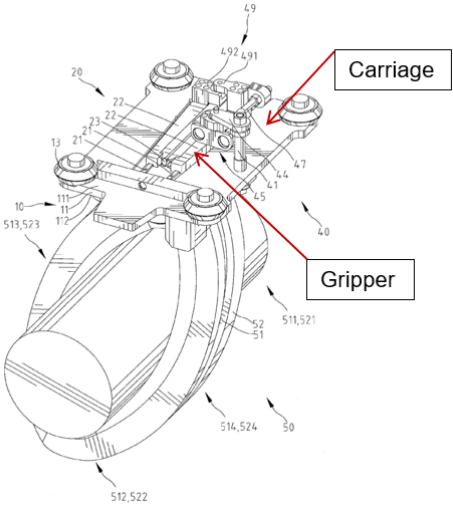
All aspects relating to drawing carriages, connections of grippers thereto and grippers.



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References

Limiting references

This place does not cover:

Grippers for drawing machines of the drum type	B21C 1/14
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B21C 1/30

Definition statement

This place covers:

All aspects relating to drives for drawing.

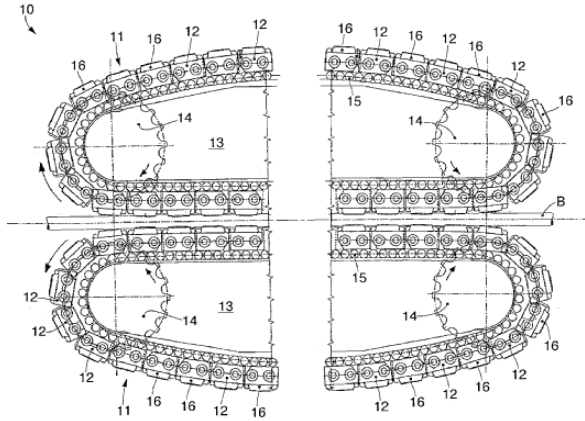
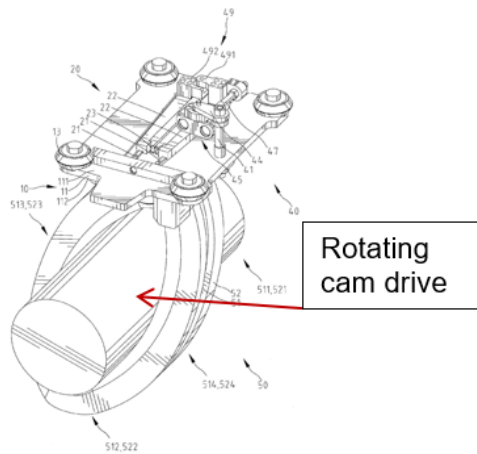


fig. 1



Rotating cam drive

References

Limiting references

This place does not cover:

Endlessly revolving chain systems	B21C 47/3458
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Informative references

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

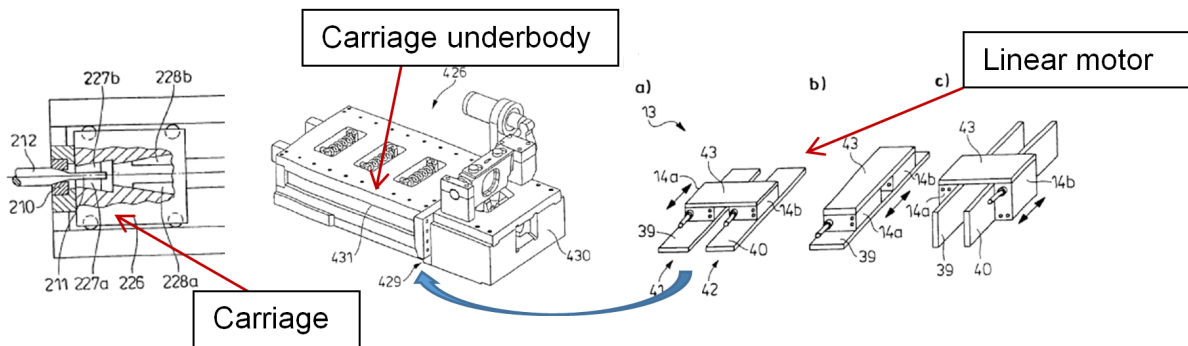
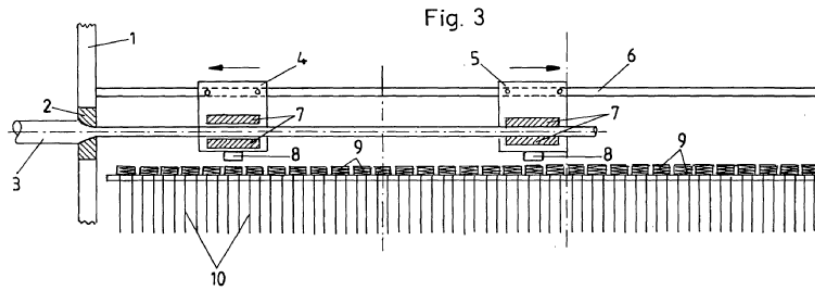
Forwarding filamentary material; Aprons, endless belts, lattices, or like driven elements	B65H 51/14
Removing or drawing-off work	B21C 35/02

B21C 1/305

Definition statement

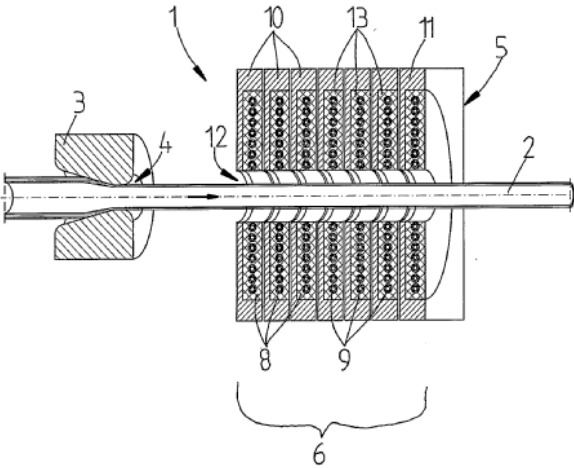
This place covers:

All aspects relating to electric linear motors for drawing.



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References

Informative references

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

Propulsion systems in which a rigid body is moved along a path due to dynamo-electric interaction between the body and a magnetic field travelling along the path; Linear motors; Sectional motors

H02K 41/02

B21C 1/32

Definition statement

This place covers:

All aspects relating to feeding or discharging the material or mandrels.

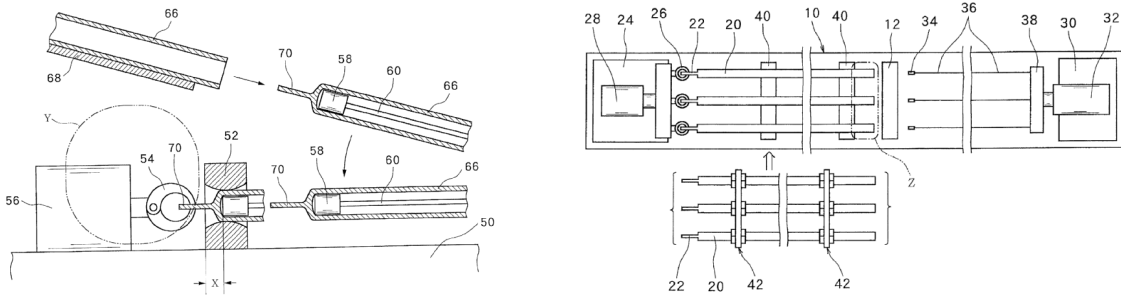
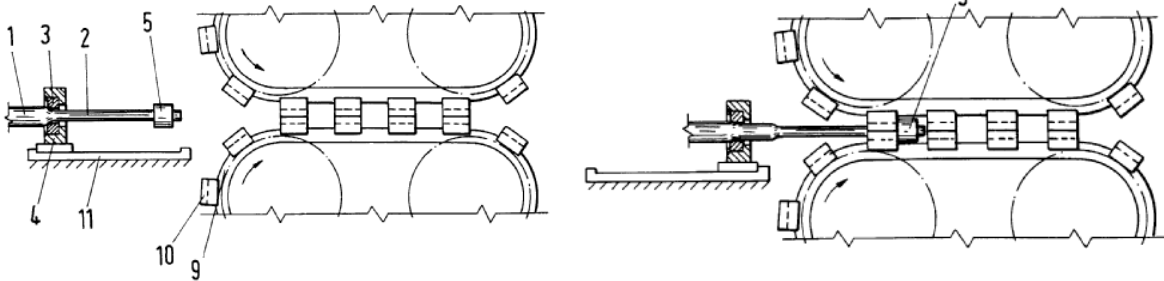


Fig. 1a

Fig. 1b

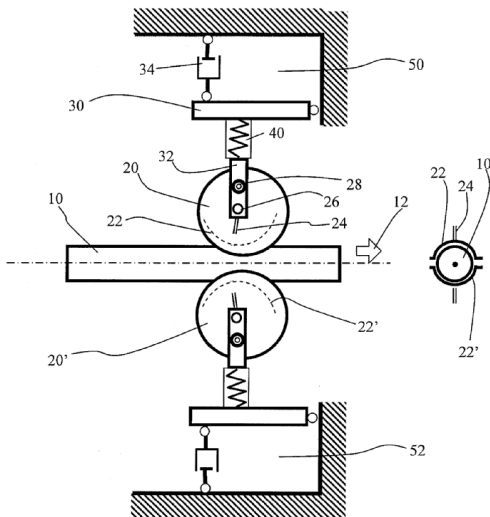
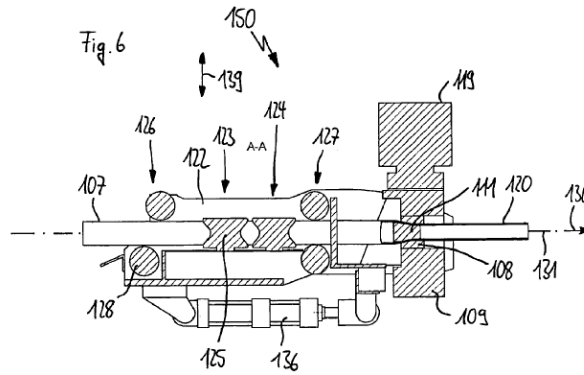
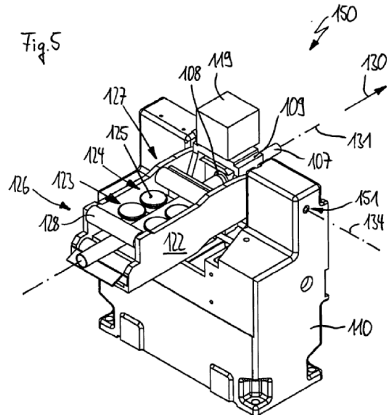


B21C 1/34

Definition statement

This place covers:

All aspects relating to guiding or supporting the material or mandrels.

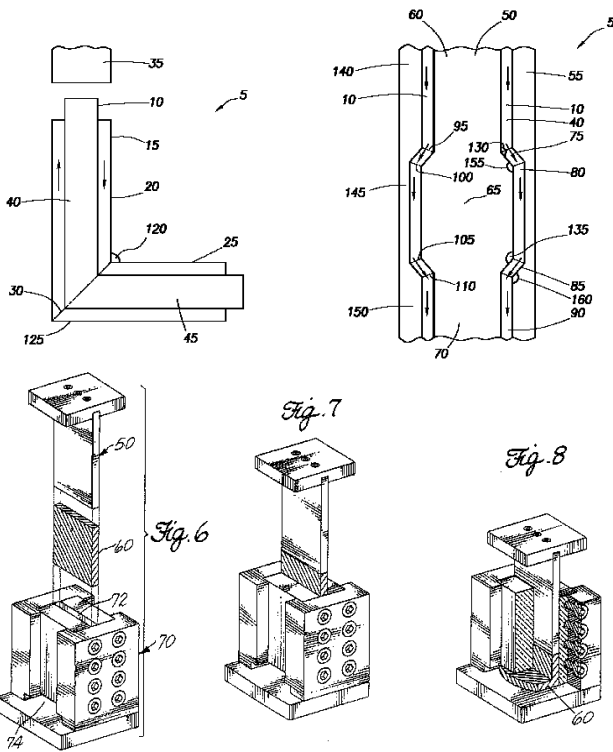


B21C 23/001

Definition statement

This place covers:

All aspects relating to extrude metals with the purpose of improving the physical properties of such metals, for example, through severe plastic deformation such as ECAP and ECAE.



References

Informative references

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

Starting from material of particular form or shape, e.g. mechanically pre-treated	B21C 23/01
Preliminary treatment of metal stock without particular shaping, e.g. salvaging segregated zones, forging or pressing in the rough	B21J 1/025

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Modifying the physical properties of iron or steel by deformation by cold working	C21D 7/02
Changing the physical structure of non-ferrous metals or alloys by heat treatment or by hot or cold working	C22F 1/00

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2. A. DEFINITIONS (modified)

Insert: The following modified definitions.

B21C 1/00

Definition statement

Delete: The following text adjacent to the image:

Source: EP1393828

References

Informative references

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

Replace: The existing text for the reference B21C3/00 with:

Profiling tools for metal drawing tools, dies and mandrels	B21C 3/00
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