${\bf SECTION} \; {\bf C-CHEMISTRY}; \; {\bf METALLURGY}$

C21 METALLURGY OF IRON

C21B MANUFACTURE OF IRON OR STEEL (preliminary treatment of ferrous ores or scrap C22B 1/00)

Note(s)

This subclass covers:

- the production of iron or steel from source materials, e.g. the production of pig-iron;
- apparatus specially adapted therefor, e.g. blast furnaces or air heaters.

Subclass index

In bla	G PIG-IRON ast furnacesr		
	ral features		
	G IRON		
MAKINO	G LIQUID STEEL BY DIRECT PROCESSES		13/00
3/00	General features in the manufacture of pig-iron	9/02	• Brick hot-blast stoves [1, 2006.01]
	(mixers for pig-iron C21C 1/06) [1, 2006.01]	9/04	 with combustion shaft [1, 2006.01]
3/02	• by applying additives, e.g. fluxing	9/06	• • Linings [1, 2006.01]
2/04	agents [1, 2006.01]	9/08	 Iron hot-blast stoves [1, 2006.01]
3/04	• Recovery of by-products, e.g. slag [1, 2006.01]	9/10	 Other details, e.g. blast mains [1, 2006.01]
3/06 3/08	 Treatment of liquid slag [1, 2006.01] Cooling slag [1, 2006.01]	9/12	 Hot-blast valves or slides for blast furnaces [1, 2006.01]
3/10	• • • Slag pots; Slag cars [1, 2006.01]	9/14	 Preheating the combustion air [1, 2006.01]
		9/16	 Cooling or drying the hot-blast [1, 2006.01]
5/00	Making pig-iron in the blast furnace [1, 2006.01]		
5/02	 Making special pig-iron, e.g. by applying additives, e.g. oxides of other metals [1, 2006.01] 	11/00	Making pig-iron other than in blast furnaces [1, 2006.01]
5/04	 Making slag of special composition [1, 2006.01] 	11/02	 in low shaft furnaces [1, 2006.01]
5/06	 using top gas in the blast furnace process [1, 2006.01] 	11/06	 in rotary kilns [1, 2006.01]
7/00	Diagram 11, 2000 011	11/08	• in hearth-type furnaces [1, 2006.01]
7/00	Blast furnaces [1, 2006.01]	11/10	 in electric furnaces [1, 2006.01]
7/02	• Internal forms [1, 2006.01]	42.400	
7/04 7/06	with special refractories [1, 2006.01]Linings for furnaces [1, 2006.01]	13/00	Making spongy iron or liquid steel, by direct
7/08	 Top armourings [1, 2006.01] 	13/02	processes [1, 2006.01]in shaft furnaces [1, 2006.01]
7/00	Cooling; Devices therefor [1, 2006.01]	13/02	• in retorts [1, 2006.01]
7/10	 Opening or sealing the tap holes [1, 2006.01] 	13/04	• in multi-storied furnaces [1, 2006.01]
7/12	 Discharging devices, e.g. for slag [1, 2006.01] 	13/08	 in rotary furnaces [1, 2006.01]
7/14	 Tuyères [1, 2006.01] 	13/10	• in hearth-type furnaces [1, 2006.01]
7/18	 Bell-and-hopper arrangements [1, 2006.01] 	13/12	• in electric furnaces [1, 2006.01]
7/10	 with appliances for distributing the 	13/14	 Multi-stage processes [1, 2006.01]
7720	burden [1, 2006.01]	15/11	Main stage processes [1, 2000/01]
7/22	• Dust arresters [1, 2006.01]	15/00	Other processes for the manufacture of iron from
7/24	• Test rods or other checking devices [1, 2006.01]		iron compounds (by electrolysis C25C 1/06) [1, 2006.01]
9/00	Stoves for heating the blast in blast furnaces [1, 2006.01]	15/02	• Metallothermic processes, e.g. thermit reduction [1, 2006.01]
	- k /	15/04	- fuere increased [1, 2000 01]

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15/04 • from iron carbonyl **[1, 2006.01]**

C21C PROCESSING OF PIG-IRON, e.g. REFINING, MANUFACTURE OF WROUGHT-IRON OR STEEL; TREATMENT IN MOLTEN STATE OF FERROUS ALLOYS

1/00	Refining of pig-iron; Cast iron [1, 2006.01]	5/40	• • • Offtakes or separating apparatus for converter
1/02	 Dephosphorising or desulfurising [1, 2006.01] 		waste gases or dust [1, 2006.01]
1/04	 Removing impurities other than carbon, phosphorus, 	5/42	• • Constructional features of converters [1, 2006.01]
	or sulfur [1, 2006.01]	5/44	 Refractory linings [1, 2006.01]
1/06	 Constructional features of mixers for pig- 	5/46	 • • Details or accessories [1, 2006.01]
	iron [1, 2006.01]	5/48	 • • • Bottoms or tuyères of
1/08	• Manufacture of cast-iron [1, 2006.01]		converters [1, 2006.01]
1/10	Making spheroidal graphite cast-iron [1, 2006.01]	5/50	• • • • Tilting mechanisms for converters [1, 2006.01]
3/00	Manufacture of wrought-iron or wrought-	5/52	 Manufacture of steel in electric furnaces [1, 2006.01]
	steel [1, 2006.01]	5/54	Processes yielding slags of special
5 /00	26 6 6 1 1 1 1 1 1 1 1 1 1		composition [1, 2006.01]
5/00	Manufacture of carbon steel, e.g. plain mild steel,	5/56	Manufacture of steel by other methods (making
5/02	medium carbon steel, or cast-steel [1, 2006.01]		liquid steel by direct processes
	• Crucible furnace processes [1, 2006.01]		C21B 13/00) [1, 2006.01]
5/04	 Manufacture of hearth-furnace steel, e.g. Siemens- 		
F /06	Martin steel [1, 2006.01]	7/00	Treating molten ferrous alloys, e.g. steel, not covered
5/06	Martin steel [1, 2006.01] • Processes yielding slags of special	7/00	by groups C21C 1/00-C21C 5/00 (treating molten
	 Martin steel [1, 2006.01] Processes yielding slags of special composition [1, 2006.01] 	7/00	by groups C21C 1/00-C21C 5/00 (treating molten metals during moulding B22D 1/00,
5/28	 Martin steel [1, 2006.01] Processes yielding slags of special composition [1, 2006.01] Manufacture of steel in the converter [1, 2006.01] 		by groups C21C 1/00-C21C 5/00 (treating molten metals during moulding B22D 1/00, B22D 27/00) [1, 2006.01]
5/28 5/30	 Martin steel [1, 2006.01] Processes yielding slags of special composition [1, 2006.01] Manufacture of steel in the converter [1, 2006.01] Regulating or controlling the blowing [1, 2006.01] 	7/00 7/04	 by groups C21C 1/00-C21C 5/00 (treating molten metals during moulding B22D 1/00, B22D 27/00) [1, 2006.01] Removing impurities by adding a treating
5/28	 Martin steel [1, 2006.01] Processes yielding slags of special composition [1, 2006.01] Manufacture of steel in the converter [1, 2006.01] Regulating or controlling the blowing [1, 2006.01] Blowing from above (C21C 5/35 takes 	7/04	 by groups C21C 1/00-C21C 5/00 (treating molten metals during moulding B22D 1/00, B22D 27/00) [1, 2006.01] Removing impurities by adding a treating agent [1, 2006.01]
5/28 5/30 5/32	 Martin steel [1, 2006.01] Processes yielding slags of special composition [1, 2006.01] Manufacture of steel in the converter [1, 2006.01] Regulating or controlling the blowing [1, 2006.01] Blowing from above (C21C 5/35 takes precedence) [1, 5, 2006.01] 	7/04 7/06	 by groups C21C 1/00-C21C 5/00 (treating molten metals during moulding B22D 1/00, B22D 27/00) [1, 2006.01] Removing impurities by adding a treating agent [1, 2006.01] Deoxidising, e.g. killing [1, 2, 2006.01]
5/28 5/30	 Martin steel [1, 2006.01] Processes yielding slags of special composition [1, 2006.01] Manufacture of steel in the converter [1, 2006.01] Regulating or controlling the blowing [1, 2006.01] Blowing from above (C21C 5/35 takes precedence) [1, 5, 2006.01] Blowing through the bath (C21C 5/35 takes 	7/04 7/06 7/064	 by groups C21C 1/00-C21C 5/00 (treating molten metals during moulding B22D 1/00, B22D 27/00) [1, 2006.01] Removing impurities by adding a treating agent [1, 2006.01] Deoxidising, e.g. killing [1, 2, 2006.01] Dephosphorising; Desulfurising [3, 2006.01]
5/28 5/30 5/32 5/34	 Martin steel [1, 2006.01] Processes yielding slags of special composition [1, 2006.01] Manufacture of steel in the converter [1, 2006.01] Regulating or controlling the blowing [1, 2006.01] Blowing from above (C21C 5/35 takes precedence) [1, 5, 2006.01] Blowing through the bath (C21C 5/35 takes precedence) [1, 5, 2006.01] 	7/04 7/06 7/064 7/068	 by groups C21C 1/00-C21C 5/00 (treating molten metals during moulding B22D 1/00, B22D 27/00) [1, 2006.01] Removing impurities by adding a treating agent [1, 2006.01] Deoxidising, e.g. killing [1, 2, 2006.01] Dephosphorising; Desulfurising [3, 2006.01] Decarburising [3, 2006.01]
5/28 5/30 5/32	 Martin steel [1, 2006.01] Processes yielding slags of special composition [1, 2006.01] Manufacture of steel in the converter [1, 2006.01] Regulating or controlling the blowing [1, 2006.01] Blowing from above (C21C 5/35 takes precedence) [1, 5, 2006.01] Blowing through the bath (C21C 5/35 takes precedence) [1, 5, 2006.01] Blowing from above and through the 	7/04 7/06 7/064	 by groups C21C 1/00-C21C 5/00 (treating molten metals during moulding B22D 1/00, B22D 27/00) [1, 2006.01] Removing impurities by adding a treating agent [1, 2006.01] Deoxidising, e.g. killing [1, 2, 2006.01] Dephosphorising; Desulfurising [3, 2006.01] Decarburising [3, 2006.01] Treatment with gases (C21C 7/06, C21C 7/064,
5/28 5/30 5/32 5/34 5/35	 Martin steel [1, 2006.01] Processes yielding slags of special composition [1, 2006.01] Manufacture of steel in the converter [1, 2006.01] Regulating or controlling the blowing [1, 2006.01] Blowing from above (C21C 5/35 takes precedence) [1, 5, 2006.01] Blowing through the bath (C21C 5/35 takes precedence) [1, 5, 2006.01] Blowing from above and through the bath [5, 2006.01] 	7/04 7/06 7/064 7/068 7/072	 by groups C21C 1/00-C21C 5/00 (treating molten metals during moulding B22D 1/00, B22D 27/00) [1, 2006.01] Removing impurities by adding a treating agent [1, 2006.01] Deoxidising, e.g. killing [1, 2, 2006.01] Dephosphorising; Desulfurising [3, 2006.01] Decarburising [3, 2006.01] Treatment with gases (C21C 7/06, C21C 7/064, C21C 7/068 take precedence) [3, 2006.01]
5/28 5/30 5/32 5/34	 Martin steel [1, 2006.01] Processes yielding slags of special composition [1, 2006.01] Manufacture of steel in the converter [1, 2006.01] Regulating or controlling the blowing [1, 2006.01] Blowing from above (C21C 5/35 takes precedence) [1, 5, 2006.01] Blowing through the bath (C21C 5/35 takes precedence) [1, 5, 2006.01] Blowing from above and through the bath [5, 2006.01] Processes yielding slags of special 	7/04 7/06 7/064 7/068	 by groups C21C 1/00-C21C 5/00 (treating molten metals during moulding B22D 1/00, B22D 27/00) [1, 2006.01] Removing impurities by adding a treating agent [1, 2006.01] Deoxidising, e.g. killing [1, 2, 2006.01] Dephosphorising; Desulfurising [3, 2006.01] Decarburising [3, 2006.01] Treatment with gases (C21C 7/06, C21C 7/064, C21C 7/068 take precedence) [3, 2006.01] Use of slags or fluxes as treating agents
5/28 5/30 5/32 5/34 5/35 5/36	 Martin steel [1, 2006.01] Processes yielding slags of special composition [1, 2006.01] Manufacture of steel in the converter [1, 2006.01] Regulating or controlling the blowing [1, 2006.01] Blowing from above (C21C 5/35 takes precedence) [1, 5, 2006.01] Blowing through the bath (C21C 5/35 takes precedence) [1, 5, 2006.01] Blowing from above and through the bath [5, 2006.01] Processes yielding slags of special composition [1, 2006.01] 	7/04 7/06 7/064 7/068 7/072	 by groups C21C 1/00-C21C 5/00 (treating molten metals during moulding B22D 1/00, B22D 27/00) [1, 2006.01] Removing impurities by adding a treating agent [1, 2006.01] Deoxidising, e.g. killing [1, 2, 2006.01] Dephosphorising; Desulfurising [3, 2006.01] Decarburising [3, 2006.01] Treatment with gases (C21C 7/06, C21C 7/064, C21C 7/068 take precedence) [3, 2006.01] Use of slags or fluxes as treating agents (C21C 7/06, C21C 7/068 take
5/28 5/30 5/32 5/34 5/35	 Martin steel [1, 2006.01] Processes yielding slags of special composition [1, 2006.01] Manufacture of steel in the converter [1, 2006.01] Regulating or controlling the blowing [1, 2006.01] Blowing from above (C21C 5/35 takes precedence) [1, 5, 2006.01] Blowing through the bath (C21C 5/35 takes precedence) [1, 5, 2006.01] Blowing from above and through the bath [5, 2006.01] Processes yielding slags of special composition [1, 2006.01] 	7/04 7/06 7/064 7/068 7/072	 by groups C21C 1/00-C21C 5/00 (treating molten metals during moulding B22D 1/00, B22D 27/00) [1, 2006.01] Removing impurities by adding a treating agent [1, 2006.01] Deoxidising, e.g. killing [1, 2, 2006.01] Dephosphorising; Desulfurising [3, 2006.01] Decarburising [3, 2006.01] Treatment with gases (C21C 7/06, C21C 7/064, C21C 7/068 take precedence) [3, 2006.01] Use of slags or fluxes as treating agents

MODIFYING THE PHYSICAL STRUCTURE OF FERROUS METALS; GENERAL DEVICES FOR HEAT TREATMENT OF FERROUS OR NON-FERROUS METALS OR ALLOYS; MAKING METAL MALLEABLE, e.g. BY DECARBURISATION OR TEMPERING (cementation by diffusion processes C23C; surface treatment of metallic material involving at least one process provided for in class C23 and at least one process covered by this subclass C23F 17/00; unidirectional solidification of eutectic materials or unidirectional demixing of eutectoid materials C30B)

Note(s) [2012.01]

- 1. Cementation by diffusion processes is classified in C23C.
- 2. Surface treatments of metallic material involving at least one process provided for in class C23 and at least one process covered by this subclass are classified in group C23F 17/00.

Subclass index

HEAT TREATMENT	
General methods or devices	1/00, 11/00
of cast-iron, of iron alloys	5/00, 6/00
adapted for particular articles	9/00
MECHANICAL TREATMENT	7/00
COMBINED MECHANICAL AND THERMAL TREATMENTS	8/00
OTHER TREATMENTS	10/00
DIFFUSION PROCESSES FOR EXTRACTION OF NON-METALS	3/00

1/00 General methods or devices for heat treatment, e.g. annealing, hardening, quenching or tempering [1, 2006.01]

- Hardening articles or materials formed by forging or rolling, with no further heating beyond that required for the formation [1, 2006.01]
- with simultaneous application of supersonic waves, magnetic or electric fields [1, 2006.01]

1/02

1/06		Surface hardening [1, 2006.01]	3/00	Diffusion processes for extraction of non-metals;
1/08		• with flames [1, 2006.01]		Furnaces therefor (local protective coatings
1/09		 by direct application of electrical or wave energy; 		C21D 1/72) [1, 2006.01]
-, -,		by particle radiation [3, 2006.01]	3/02	 Extraction of non-metals [1, 2006.01]
1/10	•	• • by electric induction [1, 3, 2006.01]	3/04	 Decarburising [1, 2006.01]
1/18		Hardening (C21D 1/02 takes precedence); Quenching	3/06	• • Extraction of hydrogen [1, 2006.01]
-,		with or without subsequent tempering (quenching	3/08	• • Extraction of nitrogen [1, 2006.01]
		devices C21D 1/62) [1, 3, 2006.01]	3/10	• Furnaces therefor [1, 2006.01]
1/19	•	 by interrupted quenching [3, 2006.01] 		•
1/20	•	Isothermal quenching, e.g. bainitic	5/00	Heat treatment of cast-iron [1, 2006.01]
		hardening [1, 3, 2006.01]	5/02	 improving the malleability of grey cast-
1/22	•	 Martempering [1, 3, 2006.01] 		iron [1, 2006.01]
1/25	•	 Hardening, combined with annealing between 300 	5/04	• of white cast-iron [1, 2006.01]
		°C and 600 °C, i.e. heat refining	5/06	 Malleabilising [1, 2006.01]
		("Vergüten") [3, 2006.01]	5/08	• • with oxidation of carbon [1, 2006.01]
1/26		Methods of annealing [1, 2006.01]	5/10	• • • in gaseous agents [1, 2006.01]
1/28		 Normalising [1, 2006.01] 	5/12	• • • in solid agents [1, 2006.01]
1/30		• Stress-relieving [1, 2006.01]	5/14	• • • Graphitising [1, 2006.01]
1/32		 Soft annealing, e.g. spheroidising [1, 2006.01] 	5/16	• • • Packing agents [1, 2006.01]
1/34	•	Methods of heating (C21D 1/06 takes	0.400	Y
		precedence) [1, 2006.01]	6/00	Heat treatment of ferrous alloys [2, 2006.01]
1/38		 Heating by cathodic discharges [1, 2006.01] 		Note(s) [2006.01]
1/40		• Direct resistance heating [1, 2006.01]		1. When classifying in group C21D 6/00, any aspect
1/42	•	• Induction heating [1, 2006.01]		of the method for the heat treatment of ferrous
1/44	•	 in heat-treatment baths [1, 2006.01] 		alloys which is considered to represent
1/46	•	• • Salt baths [1, 2006.01]		information of interest for search may also be
1/48	•	 Metal baths [1, 2006.01] 		classified in groups C21D 1/02-C21D 1/84. This
1/50	•	• • Oil baths [1, 2006.01]		can, for example, be the case when it is
1/52	•	 with flames [1, 2006.01] 		considered of interest to enable searching of heat
1/53	•	 Heating in fluidised beds [3, 2006.01] 		treatment methods of ferrous alloys using a
1/54	•	Determining when the hardening temperature has		combination of classification symbols. Such non-
		been reached by measurement of magnetic or		obligatory classification should be given as "additional information".
		electrical properties [1, 2006.01]		2. When classifying in group C21D 6/00, any
1/55		Hardenability tests, e.g. end-quench tests [3, 2006.01]		alloying constituent which is considered to
1/56		characterised by the quenching agents [1, 2006.01]		represent information of interest for search may
1/58		• Oils [1, 2006.01]		also be classified in groups C22C 38/02-
1/60		 Aqueous agents [1, 2006.01] 		C22C 38/60. This can, for example, be the case
1/607		 Molten salts [3, 2006.01] 		when it is considered of interest to enable
1/613	•	Gases; Liquefied or solidified normally gaseous		searching of heat treatment of specific ferrous alloys using a combination of classification
4 / 60		material [3, 2006.01]		symbols. Such non-obligatory classification
1/62		Quenching devices [1, 2006.01]		should be given as "additional information".
1/63		• for bath quenching [3, 2006.01]	6/02	Hardening by precipitation [2, 2006.01]
1/64		• • with circulating liquids [1, 3, 2006.01]	6/04	 Hardening by cooling below 0° C [2, 2006.01]
1/667		• for spray quenching [3, 2006.01]		
1/673		• for die quenching [3, 2006.01]	7/00	Modifying the physical properties of iron or steel by
1/68	•	Temporary coatings or embedding materials applied		deformation (apparatus for mechanical working of
4 /50		before or during heat treatment [1, 2006.01]		metal B21, B23, B24) [1, 2006.01]
1/70		• while heating or quenching [1, 2006.01]	7/02	• by cold working [1, 2006.01]
1/72		• during chemical change of surfaces [1, 2006.01]	7/04	• • of the surface [1, 2006.01]
1/74	•	Methods of treatment in inert gas, controlled	7/06	• • • by shot-peening or the like [1, 2006.01]
		atmosphere, vacuum or pulverulent material [1, 2006.01]	7/08	• • • by burnishing or the like [1, 2006.01]
1/76		Adjusting the composition of the	7/10	• • of the whole cross-section, e.g. of concrete
1//0	·	atmosphere [1, 2006.01]		reinforcing bars [1, 2006.01]
1/767		 with forced gas circulation; Reheating 	7/12	• • by expanding tubular bodies [1, 2006.01]
1//0/		thereof [3, 2006.01]	7/13	 by hot working [1, 2006.01]
1/773		• under reduced pressure or vacuum [3, 2006.01]	8/00	Modifying the physical properties by deformation
1/78		Combined heat-treatments not provided for	0,00	combined with, or followed by, heat treatment
		above [1, 2006.01]		(hardening articles or materials formed by forging or
1/82	•	Descaling by thermal stresses (mechanically B21,		rolling with no further heating beyond that required for
		B23; chemically C23; electrolytically		the formation C21D 1/02) [3, 2006.01]
		C25F 1/00) [1, 2006.01]	8/02	• during manufacturing of plates or strips (C21D 8/12
1/84	•	Controlled slow cooling (cooling-beds for metal		takes precedence) [3, 2006.01]
		rolling B21B 43/00) [3, 2006.01]	8/04	• to produce plates or strips for deep-
				drawing [3, 2006.01]

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8/06	• during manufacturing of rods or wires [3, 2006.01]	9/46	• for sheet metals [1, 2006.01]
8/08	• • for concrete reinforcement [3, 2006.01]	9/48	 deep-drawing sheets [1, 2006.01]
8/10	 during manufacturing of tubular bodies [3, 2006.01] 	9/50	• for welded joints [1, 2006.01]
8/12	 during manufacturing of articles with special 	9/52	 for wires; for strips [1, 2006.01]
	electromagnetic properties [3, 2006.01]	9/54	• • Furnaces for treating strips or wire [1, 2006.01]
0./00	West and and a man and the last and a last and	9/56	 Continuous furnaces for strip or
9/00	Heat treatment, e.g. annealing, hardening, quenching or tempering, adapted for particular articles;		wire [1, 2006.01]
	Furnaces therefor [1, 2006.01]	9/567	
9/02	• for springs [1, 2006.01]	9/573	0.,
9/04	• for rails [1, 2006.01]	9/58	• • • with heating by baths [1, 2006.01]
9/06	 with diminished tendency to become 	9/60	• • • with induction heating [1, 2006.01]
	wavy [1, 2006.01]	9/62	• • • with direct resistance heating [1, 2006.01]
9/08	• for tubular bodies or pipes [1, 2006.01]	9/63	• • • the strip being supported by a cushion of
9/10	• • shotgun barrels [1, 2006.01]	0./64	gas [3, 2006.01]
9/12	• • barrels for ordnance [1, 2006.01]	9/64	• • • Patenting furnaces [1, 2006.01]
9/14	 wear-resistant or pressure-resistant 	9/66	• • • Tower-type furnaces [1, 2006.01]
	pipes [1, 2006.01]	9/663 9/665	, SF
9/16	 for explosive shells [1, 2006.01] 	9/665	3
9/18	 for knives, scythes, scissors, or like hand cutting 	9/667	• • • • adapted for treating the charge in vacuum
	tools [1, 2006.01]	9/6/	or special atmosphere [3, 2006.01]
9/20	• for blades for skates [1, 2006.01]	9/673	• • • • • • • • • • • • • • • • • • • •
9/22	• for drills; for milling cutters; for machine cutting	3/0/3	to bell-type furnaces [3, 2006.01]
9/24	tools [1, 2006.01]	9/675	
9/24	for saw blades [1, 2006.01]for needles; for teeth for card-clothing [1, 2006.01]		devices [3, 2006.01]
9/28	for needles; for teeth for card-clothing [1, 2006.01]for plain shafts [1, 2006.01]	9/677	• • • • Arrangements of heating
9/30	• for crankshafts; for camshafts [1, 2006.01]		devices [3, 2006.01]
9/30	• for gear wheels, worm wheels, or the	9/68	 • Furnace coilers; Hot coilers (cold coilers
3/32	like [1, 2006.01]		B21C 47/00) [1, 2006.01]
9/34	• for tyres; for rims [1, 2006.01]	9/70	• Furnaces for ingots, i.e. soaking pits [1, 2006.01]
9/36	• for balls; for rollers [1, 2006.01]	10/00	Modifying the physical properties by methods other
9/38	• for roll bodies [1, 2006.01]	10,00	than heat treatment or deformation [3, 2006.01]
9/40	• for rings; for bearing races [1, 2006.01]		
9/42	• for armour plate [1, 2006.01]	11/00	Process control or regulation for heat
9/44	 for equipment for lining mine shafts, e.g. segments, 		treatments [2, 2006.01]
	rings or props [1, 2006.01]		

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