SECTION C — CHEMISTRY; 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

MAKING PIG-IRON .5/00, 7/00, 9/00 In blast furnaces			
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]
	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	Blast furnaces [1, 2006.01]	11/08	 in hearth-type furnaces [1, 2006.01]
7/00	• Internal forms [1, 2006.01]	11/10	 in electric furnaces [1, 2006.01]
7/02	 with special refractories [1, 2006.01] 	13/00	Maling an arganization on limited at all has disease
7/04	 Linings for furnaces [1, 2006.01] 	13/00	Making spongy iron or liquid steel, by direct processes [1, 2006.01]
7/08	• Top armourings [1, 2006.01]	13/02	in shaft furnaces [1, 2006.01]
7/10	• Cooling; Devices therefor [1, 2006.01]	13/04	• in retorts [1, 2006.01]
7/12	• Opening or sealing the tap holes [1, 2006.01]	13/06	• in multi-storied furnaces [1, 2006.01]
7/14	• Discharging devices, e.g. for slag [1, 2006.01]	13/08	• in rotary furnaces [1, 2006.01]
7/16	• 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]
7/20	• • with appliances for distributing the burden [1, 2006.01]	13/14	• Multi-stage processes [1, 2006.01]
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]
		45/04	6 . 1 154 0000 041

IPC (2024.01), Section C 1

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