SECTION C — CHEMISTRY; METALLURGY

C06 EXPLOSIVES; MATCHES

C06B EXPLOSIVE OR THERMIC COMPOSITIONS (blasting F42D); MANUFACTURE THEREOF; USE OF SINGLE SUBSTANCES AS EXPLOSIVES [2]

Note(s) [2]

- 1. This subclass covers:
 - compositions which are:
 - a. explosive: compositions included are those containing both a fuel and sufficient oxidiser so that, upon initiation, they are capable of undergoing a chemical change of a relatively high rate of speed, resulting in the production of usable force for blasting, firearms, propelling missiles, or the like;
 - b. thermic: compositions included have (i) a consumable fuel component which consists of any element which is a metal, B, Si, Se or Te, or mixtures, intercompounds, or hydrides thereof; and (ii) in combination an oxidant component which is either a metal oxide or a salt (organic or inorganic) capable of yielding a metal oxide on decomposition;
 - fuels for rocket engines and intended for reaction with an oxidant, excluding air, in order to provide thrust for motive power purposes;
 - d. for use in affecting the explosion environment, e.g. for neutralising the poisonous gases of explosives, for cooling the explosion gases, or the like;
 - methods or apparatus for preparing or treating such compositions not otherwise provided for;
 - methods of using single substances as explosives.
- 2. In this subclass, the following term is used with the meaning indicated:
 - "nitrated" covers compounds having a nitro group or a nitrate ester group.
- Methods or apparatus for preparing or treating such compositions are classified according to the particular components of the compositions.

Subclass index

EXPLOSIVE OR THERMIC COMPOSITIONS

Containing nitrated derivatives

inorganic	31/00
organic	25/00, 41/00
Containing nitrides or fulminates	•
Containing chlorates or perchlorates	
Containing metal	
Containing phosphorus	39/00
Other compositions	23/00, 43/00
Compositions defined by the structure or arrangement of the components	45/00, 47/00
USE OF A SINGLE SUBSTANCE AS AN EXPLOSIVE	49/00
MANUFACTURE	21/00

21/00	Apparatus or methods for working-up explosive		
	e.g. forming, cutting, drying [1, 2006.01]		

Note(s) [2]

In groups C06B 23/00-C06B 49/00, in the absence of an indication to the contrary, a composition is classified in the last place that provides for an ingredient.

- 23/00 Compositions characterised by non-explosive or nonthermic constituents [2, 2006.01]
- for neutralising poisonous gases from explosives produced during blasting [2, 2006.01]
- 23/04 for cooling the explosion gases **[2, 2006.01]**
- 25/00 Compositions containing a nitrated organic compound [2, 2006.01]

- 25/02 the nitrated compound being starch or sugar [2, 2006.01]
- the nitrated compound being an aromatic [2, 2006.01]
 - with two or more nitrated aromatic compounds present [2, 2006.01]
- 25/08 • at least one of which is nitrated toluene **[2, 2006.01]**
- the compound being nitroglycerine [2, 2006.01]
- 25/12 • with other nitrated organic compound **[2, 2006.01]**
- 25/14 • the other compound being a nitrated aliphatic diol [2, 2006.01]
- 25/16 • the other compound being a nitrated aromatic **[2, 2006.01]**
- 25/18 the compound being nitrocellulose present as 10% or more by weight of the total composition [2, 2006.01]

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25/06

25/20	• • with a non-explosive or a non-thermic	31/30	• • with vegetable matter; with resin; with
05 (00	component [2, 2006.01]	24 (22	rubber [2, 2006.01]
25/22	• • with a nitrated aromatic compound [2, 2006.01]	31/32	• • with a nitrated organic compound [2, 2006.01]
25/24	• • with nitroglycerine [2, 2006.01]	31/34	• • • the nitrated compound being starch or
25/26	 with an organic non-explosive or an organic non-thermic component [2, 2006.01] 	31/36	sugar [2, 2006.01]with other explosive or thermic
25/28	 the compound being nitrocellulose present as less 		component [2, 2006.01]
	than 10% by weight of the total composition [2, 2006.01]	31/38	 • the nitrated compound being an aromatic [2, 2006.01]
25/30	• • with nitroglycerine [2, 2006.01]	31/40	• • • with an organic non-explosive or an organic
25/32	the compound being nitrated		non-thermic component [2, 2006.01]
25/34	pentaerythritol [2, 2006.01] • the compound being a nitrated acyclic, alicyclic or	31/42	• • • with other explosive or thermic component [2, 2006.01]
2 070.	heterocyclic amine [2, 2006.01]	31/44	• • • the compound being nitroglycerine [2, 2006.01]
25/36	• the compound being a nitroparaffin [2, 2006.01]	31/46	• • • with a vegetable matter component, e.g.
25/38	• • with other nitrated organic compound [2, 2006.01]		wood pulp, sawdust [2, 2006.01]
25/40	with two or more nitroparaffins	31/48	• • • with other explosive or thermic
2 57 .0	present [2, 2006.01]		component [2, 2006.01]
27/00	Compositions containing a metal, boron, silicon,	31/50	• • • • the other component being a nitrated organic compound [2, 2006.01]
	selenium or tellurium or mixtures, intercompounds	31/52	• • • the compound being nitrocellulose present as
	or hydrides thereof, and hydrocarbons or halogenated hydrocarbons [2, 2006.01]	517.52	10% or more by weight of the total composition [2, 2006.01]
		31/54	• • • with other nitrated organic
29/00	Compositions containing an inorganic oxygen-	31/34	compound [2, 2006.01]
	halogen salt, e.g. chlorate, perchlorate [2, 2006.01]	31/56	• • • the compound being nitrocellulose present as
29/02	 of an alkali metal [2, 2006.01] 		less than 10% by weight of the total
29/04	 with an inorganic non-explosive or an inorganic non-thermic component [2, 2006.01] 		composition [2, 2006.01]
29/06	 the component being a cyanide; the component 	33/00	Compositions containing particulate metal, alloy,
	being an oxide of iron, chromium or		boron, silicon, selenium or tellurium with at least one
	manganese [2, 2006.01]		oxygen supplying material which is either a metal
29/08	with an organic non-explosive or an organic non-		oxide or a salt, organic or inorganic, capable of
	thermic component [2, 2006.01]	22.422	yielding a metal oxide [2, 2006.01]
29/10	• • the component being a dye or a colouring agent [2, 2006.01]	33/02	 with an organic non-explosive or an organic non- thermic component [2, 2006.01]
29/12	 with carbon or sulfur [2, 2006.01] 	33/04	 the material being an inorganic nitrogen-oxygen
29/14	 with iodine or an iodide [2, 2006.01] 		salt [2, 2006.01]
29/16	• • with a nitrated organic compound [2, 2006.01]	33/06	the material being an inorganic oxygen-halogen
29/18	 the compound being nitrated toluene or a 		salt [2, 2006.01]
	nitrated phenol [2, 2006.01]	33/08	• with a nitrated organic compound [2, 2006.01]
29/20	• • • the compound being nitrocellulose [2, 2006.01]	33/10	 the compound being an aromatic [2, 2006.01]
29/22	• the salt being ammonium perchlorate [2, 2006.01]	33/12	 the material being two or more oxygen-yielding compounds [2, 2006.01]
31/00	Compositions containing an inorganic nitrogen-	33/14	 at least one being an inorganic nitrogen-oxygen
	oxygen salt [2, 2006.01]		salt [2, 2006.01]
31/02	 the salt being an alkali metal or an alkaline earth 		
	metal nitrate [2, 2006.01]	35/00	Compositions containing a metal azide [2, 2006.01]
31/04	 with carbon or sulfur [2, 2006.01] 	37/00	Compositions containing a metal
31/06	 • with an organic non-explosive or an organic 	37700	fulminate [2, 2006.01]
	non-thermic component [2, 2006.01]	37/02	with a nitrated organic compound or an inorganic
31/08	 with a metal oxygen-halogen salt, e.g. inorganic chlorate, inorganic perchlorate [2, 2006.01] 	37702	oxygen-halogen salt [2, 2006.01]
31/10	• • • with carbon or sulfur [2, 2006.01]	39/00	Compositions containing free phosphorus or a binary
31/12	• • with a nitrated organic compound [2, 2006.01]		compound of phosphorus, except with
31/14	• • • the compound being an aromatic [2, 2006.01]		oxygen [2, 2006.01]
31/16	• • • the compound being a nitrated	39/02	• with an inorganic oxygen-halogen salt [2, 2006.01]
	toluene [2, 2006.01]	39/04	 with a binary compound of phosphorus, except
31/18	• • • the compound being a nitrated phenol, e.g.		with oxygen [2, 2006.01]
	picric acid [2, 2006.01]	39/06	 with free metal, alloy, boron, silicon, selenium or
31/20	• • • the compound being nitroglycerine [2, 2006.01]		tellurium [2, 2006.01]
31/22	• • • the compound being nitrocellulose [2, 2006.01]	44 / 5 5	
31/24	• • • with other explosive or thermic component [2, 2006.01]	41/00	Compositions containing a nitrated metallo-organic compound [2, 2006.01]
31/26	• • • • the other component being	41/02	 the compound containing lead [2, 2006.01]
51, 2 0	nitroglycerine [2, 2006.01]	41/04	 with an organic explosive or an organic thermic
31/28	• the salt being ammonium nitrate [2, 2006.01]		component [2, 2006.01]

41/06	• • • with an inorganic explosive or an inorganic thermic component [2, 2006.01]	45/24	• • • the compound being an organic explosive or an organic thermic component [2, 2006.01]
41/08	with a metal azide or a metal	45/26	• • • • the compound being a nitrated
	fulminate [2, 2006.01]		toluene [2, 2006.01]
41/10	 with other nitrated metallo-organic compound [2, 2006.01] 	45/28	 the component base containing nitrocellulose and nitroglycerine [2, 2006.01]
43/00	Compositions characterised by explosive or thermic	45/30	• the component base containing an inorganic
45/00	constituents not provided for in groups C06B 25/00-		explosive or an inorganic thermic component [2, 2006.01]
	C06B 41/00 [2, 2006.01]	45/32	 the coating containing an organic
45/00	Compositions or products which are defined by		compound [2, 2006.01]
45/00	structure or arrangement of component or product	45/34	• • • the compound being an organic explosive or an organic thermic component [2, 2006.01]
	(explosive charges of particular form or shape F42B 1/00, F42B 3/00) [2, 2006.01]	45/36	• • the component base containing both an organic
45/02	 comprising particles of diverse size or shape [2, 2006.01] 		explosive or thermic component and an inorganic explosive or thermic component [2, 2006.01]
45/04	 comprising solid particles dispersed in solid solution or matrix [2, 2006.01] 	47/00	Compositions in which the components are
45/06	• • the solid solution or matrix containing an organic		separately stored until the moment of burning or explosion, e.g. "Sprengel"-type explosives;
45 /00	component [2, 2006.01]		Suspensions of solid component in a normally non-
45/08	the dispersed solid containing an inorganic explosive or an inorganic thermic		explosive liquid phase, including a thickened aqueous phase [2, 2006.01]
	component [2, 2006.01]	47/02	• the components comprising a binary
45/10	• • • the organic component containing a	17702	propellant [2, 2006.01]
45/12	resin [2, 2006.01] • having contiguous layers or zones [2, 2006.01]	47/04	 a component containing a nitrogen oxide or acid thereof [2, 2006.01]
45/14	a layer or zone containing an inorganic explosive	47/06	a component being a liquefied normally gaseous
45 /40	or an inorganic thermic component [2, 2006.01]		material supplying oxygen (C06B 47/04 takes
45/16	 the layer or zone containing at least one inorganic component from the group of azide, 	47/08	precedence) [2, 2006.01]a component containing hydrazine or a hydrazine
	fulminate, phosphorus and	47700	derivative [2, 2006.01]
	phosphide [2, 2006.01]	47/10	• • a component containing free boron, an organic
45/18	 comprising a coated component (particles dispersed in a matrix C06B 45/04; coated explosive charges 		borane or a binary compound of boron, except with oxygen [2, 2006.01]
	F42B) [2, 2006.01]	47/12	a component being a liquefied normally gaseous
45/20	the component base containing an organic		fuel [2, 2006.01]
	explosive or an organic thermic component [2, 2006.01]	47/14	 comprising a solid component and an aqueous phase [2, 2006.01]
45/22	• • • the coating containing an organic	49/00	Use of single substances as explosives [2, 2006.01]
	compound [2, 2006.01]	49/00	Use of single substances as explosives [2, 2006.01]
C06C	DETONATING OR PRIMING DEVICES; FUSES; CHI	EMICAL LIG	HTERS; PYROPHORIC COMPOSITIONS [2]
		- /00	
5/00 5/04	Fuses, e.g. fuse cords [1, 2006.01]Detonating fuses [1, 2006.01]	7/02	• Manufacture; Packing [1, 2006.01]
5/04	• Fuse igniting means; Fuse connectors [1, 2006.01]	9/00	Chemical contact igniters; Chemical
5/08	• Devices for the manufacture of fuses [1, 2006.01]		lighters [1, 2006.01]
7/00	Non-electric detonators; Blasting caps; Primers [1, 2006.01]	15/00	Pyrophoric compositions; Flints (chemical lighters C06C 9/00) [1, 2006.01]
C06D	MEANS FOR GENERATING SMOKE OR MIST; C BLASTING OR PROPULSION (CHEMICAL PART) [2		COMPOSITIONS; GENERATION OF GAS FOR
3/00	Generation of smoke or mist [chemical part]	5/02	by decompressing compressed, liquefied, or
3, 30	(compositions used as biocides, pest repellants or	3, 02	solidified gases [1, 2006.01]
	attractants, or plant growth regulators A01N 25/18) [1, 2006.01]	5/04	• by auto-decomposition of single
	110111 20/10/ [1, 2000.01]	5/06	substances [1, 2006.01] • by reaction of two or more solids [1, 2006.01]
5/00	Generation of pressure gas, e.g. for blasting	5/08	 by reaction of two of more solids [1, 2006.01] by reaction of two or more liquids [1, 2006.01]
	cartridges, starting cartridges, rockets (explosive compositions containing an oxidizer, fuels for rocket	5/10	 by reaction of solids with liquids [1, 2006.01]
	engines intended for reaction with an oxidant other than	F /00	•
	air C06B) [1, 2006.01]	7/00	Compositions for gas-attacks [1, 2006.01]

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C06F MATCHES; MANUFACTURE OF MATCHES

1/00	Mechanical manufacture of matches [1, 2006.01]	1/22	 Manufacturing of match-books, match packs 	
1/02	 Cutting match splints [1, 2006.01] 		or match packages [1, 2006.01]	
1/04	 Filling match splints into carrier bars; Discharging 	1/24	 Safety devices against fire [1, 2006.01] 	
	matches [1, 2006.01]	1/26	 Production lines for complete match 	
1/06	 Dipping, coating, impregnating, or drying of 		manufacture [1, 2006.01]	
	matches [1, 2, 2006.01]	D / 0.0		
1/08	• Carrier bars [1, 2006.01]	3/00	Chemical features in the manufacture of	
1/10	 Guiding means for carrier bars [1, 2006.01] 	2./02	matches [1, 2006.01]	
1/12	 Filling matches into boxes [1, 2006.01] 	3/02	Wooden strip for matches or substitute The surface Id. 2006 011.	
1/14	• Manufacture of ignition strips [1, 2006.01]	2/04	therefor [1, 2006.01]	
1/16	 Manufacture of matches connected together, e.g. in 	3/04	• • Chemical treatment before or after dipping, e.g.	
	bands or blocks [1, 2006.01]	2 /00	dyeing, impregnating [1, 2006.01]	
1/18	 Printing on matches or match-boxes when combined 	3/08	• Strike-surface compositions [1, 2006.01]	
	with match manufacture [1, 2006.01]	5/00	Matches (match-books A24F 27/12) [1, 2006.01]	
1/20	 Applying strike-surfaces, e.g. on match-boxes, on 	5/02	 Permanent matches [1, 2006.01] 	
	match-books [1, 2006.01]	5/04	• Wax matches [1, 2006.01]	
		5/04	• wax matches [1, 2000.01]	

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