

C05 FERTILISERS; MANUFACTURE THEREOF (processes or devices for granulating materials, in general B01J 2/00; soil-conditioning or soil-stabilising materials C09K 17/00) [4]

- (1) An ingredient in a mixture of fertilisers, or a single fertiliser which contains more than one of the chemical elements on which the subdivision into subclasses is based, is classified only in the first of the appropriate subclasses. Thus, a nitrophosphate or an ammoniated superphosphate is classified in C05B but not in C05C, magnesium phosphate is classified in C05B but not in C05D, and calcium cyanamide in C05C but not in C05D.
- (2) Any ingredient in a mixture, which is considered to represent information of interest for search, may also additionally be classified according to Note (1). This can, for example, be the case when it is considered of interest to enable searching of mixtures using a combination of classification symbols. Such non-obligatory classification should be given as “additional information”. [8]

C05B PHOSPHATIC FERTILISERS

Subclass index

SUPERPHOSPHATES	1/00	ORGANIC FERTILISERS	15/00, 17/00
PRODUCED BY WET TREATMENTS	11/00	GRANULATION; PELLETISATION	19/00
PRODUCED BY PYROGENIC PROCESSES	13/00	MIXTURES OF PHOSPHATIC	
OTHER INORGANIC FERTILISERS	3/00 to 9/00, 17/00	FERTILISERS	21/00

1/00 Superphosphates, i.e. fertilisers produced by reacting rock or bone phosphates with sulfuric or phosphoric acid in such amounts and concentrations as to yield solid products directly		11/06 . . using nitric acid (nitrophosphates)	
1/02 . Superphosphates		11/08 . . using sulfuric acid	
1/04 . Double-superphosphate; Triple-superphosphate Other fertilisers based essentially on monocalcium phosphate		11/10 . . using orthophosphoric acid	
1/06 . Ammoniation of superphosphates (fertilisers based essentially on ammonium orthophosphate C05B 7/00)		11/12 . . using aqueous hydrochloric acid	
1/10 . Apparatus for the manufacture of superphosphates		11/14 . . using wet gaseous acids	
3/00 Fertilisers based essentially on di-calcium phosphate (C05B 11/00 takes precedence)		11/16 . using alkaline lyes	
5/00 Thomas phosphate; Other slag phosphates		13/00 Fertilisers produced by pyrogenic processes from phosphatic materials	
7/00 Fertilisers based essentially on alkali or ammonium orthophosphates (C05B 11/00 takes precedence)		13/02 . from rock phosphates (C05B 13/06 takes precedence)	
9/00 Fertilisers based essentially on phosphates or double phosphates of magnesium (C05B 11/00 takes precedence)		13/04 . from metallic phosphorus compounds, e.g. ferro-phosphorus	
11/00 Fertilisers produced by wet-treating or leaching raw materials either with acids in such amounts and concentrations as to yield solutions followed by neutralisation, or with alkaline lyes		13/06 . Alkali or alkaline earth meta- or polyphosphate fertilisers	
11/02 . Pretreatment		15/00 Organic phosphatic fertilisers (bone meal C05B 17/00)	
11/04 . using mineral acid		17/00 Other phosphatic fertilisers, e.g. soft rock phosphates, bone meal	
		17/02 . containing manganese	
		19/00 Granulation or pelletisation of phosphatic fertilisers other than slag (granulating slag C04B)	
		19/02 . of superphosphates or mixtures containing them	
		21/00 Mixtures of phosphatic fertilisers covered by more than one of main groups C05B 1/00 to C05B 19/00	

C05C NITROGENOUS FERTILISERS

Subclass index

BASED ON NITRATES	1/00, 5/00	BASED ON UREA	9/00
BASED ON AMMONIUM SALTS,		OTHER FERTILISERS	11/00
AMMONIA	1/00, 3/00	MIXTURES OF NITROGENOUS	
BASED ON CYANAMIDE	7/00	FERTILISERS	13/00

1/00	Ammonium nitrate fertilisers	7/00	Fertilisers containing calcium or other cyanamides
1/02	• Granulation; Pelletisation; Stabilisation; Colouring	7/02	• Granulation; Pelletisation; De-gassing; Hydrating; Hardening; Stabilisation; Oiling
3/00	Fertilisers containing other salts of ammonia or ammonia itself, e.g. gas liquor	9/00	Fertilisers containing urea or urea compounds
5/00	Fertilisers containing other nitrates	9/02	• containing urea-formaldehyde condensates
5/02	• containing sodium or potassium nitrate	11/00	Other nitrogenous fertilisers
5/04	• containing calcium nitrate	13/00	Mixtures of nitrogenous fertilisers covered by more than one of main groups C05C 1/00 to C05C 11/00

C05D INORGANIC FERTILISERS NOT COVERED BY SUBCLASSES C05B, C05C; FERTILISERS PRODUCING CARBON DIOXIDE

1/00	Fertilisers containing potassium (C05D 7/00 takes precedence)	5/00	Fertilisers containing magnesium (C05D 7/00 takes precedence)
1/02	• Manufacture from potassium chloride or sulfate or double or mixed salts thereof	7/00	Fertilisers producing carbon dioxide
1/04	• from minerals or volcanic rocks	9/00	Other inorganic fertilisers
3/00	Calcareous fertilisers (C05D 7/00 takes precedence)	9/02	• containing trace elements
3/02	• from limestone, calcium carbonate, calcium hydrate, slaked lime, calcium oxide, waste calcium compounds	11/00	Mixtures of fertilisers covered by more than one of main groups C05D 1/00 to C05D 9/00
3/04	• from blast-furnace slag or other slags containing lime or calcium silicates		

C05F ORGANIC FERTILISERS NOT COVERED BY SUBCLASSES C05B, C05C, E.G. FERTILISERS FROM WASTE OR REFUSE

- (1) Processes using enzymes or micro-organisms in order to:
- (i) liberate, separate or purify a pre-existing compound or composition, or to
- (ii) treat textiles or clean solid surfaces of materials
- are further classified in subclass C12S. [5]
- (2) Processes where the composting step is the characterising feature, or apparatus therefor, are classified in group C05F 17/00. [5]

1/00	Fertilisers made from animal corpses, or parts thereof	9/00	Fertilisers from household or town refuse
1/02	• Apparatus for their manufacture	9/02	• Apparatus for the manufacture
3/00	Fertilisers from human or animal excrements, e.g. manure	9/04	• Biological compost
3/02	• Guano	11/00	Other organic fertilisers
3/04	• from human faecal masses	11/02	• from peat, brown coal, or similar vegetable deposits
3/06	• Apparatus for their manufacture	11/04	• . Horticultural earth ("Gärtnerische Erden") from peat
5/00	Fertilisers from distillery wastes, molasses, vinasses, sugar plant, or similar wastes or residues	11/06	• . Apparatus for their manufacture
7/00	Fertilisers from waste water, sewage sludge, sea slime, ooze or similar masses (methods or installations for de-watering, drying, or incineration of sludge C02F 11/00)	11/08	• Organic fertilisers containing added bacterial cultures, mycelia or the like
7/02	• from sulfite liquor or other waste lyes from the manufacture of cellulose	11/10	• Fertilisers containing plant vitamins or hormones
7/04	• from waste liquors in the potash industry	15/00	Mixtures of fertilisers covered by more than one of main groups C05F 1/00 to C05F 11/00; Fertilisers from mixtures of starting materials, all the starting materials being covered by this subclass but not by the same main group [5]
		17/00	Preparation of fertilisers characterised by the composting step [5]
		17/02	• Apparatus therefor [5]

C05G MIXTURES OF FERTILISERS COVERED INDIVIDUALLY BY DIFFERENT SUBCLASSES OF CLASS C05; MIXTURES OF ONE OR MORE FERTILISERS WITH MATERIALS NOT HAVING A SPECIFIC FERTILISING ACTIVITY, E.G. PESTICIDES, SOIL-CONDITIONERS, WETTING AGENTS (organic fertilisers containing added bacterial cultures, mycelia, or the like C05F 11/08; organic fertilisers containing plant vitamins or hormones C05F 11/10); **FERTILISERS CHARACTERISED BY THEIR FORM** [4]

- (1) This subclass covers mixtures of fertilisers with soil-conditioning or soil-stabilising materials characterised by their fertilising activity. [6]
- (2) This subclass does not cover mixtures of fertilisers with soil-conditioning or soil-stabilising materials characterised by their soil-conditioning or soil-stabilising activity, which are covered by group C09K 17/00. [6]

1/00	Mixtures of fertilisers covered individually by different subclasses of class C05	3/00	Mixtures of one or more fertilisers with materials not having a specifically fertilising activity
1/02	. of superphosphates with ammonium nitrate	3/02	. with pesticides
1/04	. of Thomas phosphate with potassium compounds	3/04	. with soil conditioners
1/06	. of alkali or ammonium orthophosphates with ammonium nitrate or ammonium sulfate or other nitrates or potassium compounds	3/06	. with wetting agents
1/08	. of ammonium nitrate with limestone or calcium carbonate	3/08	. with agents affecting the nitrification of ammonium compounds or urea in the soil
1/10	. of ammonium sulfate with potassium compounds	3/10	. with dust-preventing coatings [4]
		5/00	Fertilisers characterised by their form (granulating fertilisers characterised by their chemical constitution, <u>see</u> the relevant groups in C05B to C05G) [4]