CPC COOPERATIVE PATENT CLASSIFICATION

F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING (NOTE omitted)

LIGHTING; HEATING

F25 REFRIGERATION OR COOLING; COMBINED HEATING AND REFRIGERATION SYSTEMS; HEAT PUMP SYSTEMS; MANUFACTURE OR STORAGE OF ICE; LIQUEFACTION SOLIDIFICATION OF GASES

F25C PRODUCING, WORKING OR HANDLING ICE

NOTE

In this subclass, the following term is used with the meaning indicated:

• "ice" means any frozen liquid and also covers frozen semiliquids or pasty substances.

1/00	Producing ice (F25C 3/00 takes precedence)	5/08	• • • by heating bodies in contact with the ice
1/02	• Producing natural ice, i.e. without refrigeration	5/10	using hot refrigerant; using fluid heated by
1/04	 by using stationary moulds 		refrigerant
1/045	• • with the open end pointing downwards	5/12	Ice-shaving machines
1/06	• • open or openable at both ends	5/14	• Apparatus for shaping or finishing ice pieces, e.g.
1/08	 by immersing freezing chambers {, cylindrical 		ice presses
	bodies} or plates into water	5/142	• • {extrusion of ice crystals}
1/10	• by using rotating or otherwise moving moulds	5/18	• Storing ice
	(F25C 1/08 takes precedence)	5/182	. Ice bins therefor
1/12	• by freezing water on cooled surfaces, e.g. to form	5/185	• • • with freezing trays
	slabs	5/187	• • • with ice level sensing means
1/125	• • {on flexible surfaces}	5/20	• Distributing ice
1/14	• to form thin sheets which are removed by	5/22	• • {particularly adapted for household refrigerators}
	scraping or wedging, e.g. in the form of flakes	5/24	• { for storing bins (ice bins $\underline{F25C 5/182}$) }
1/142	from the outer walls of cooled bodies	22 00 /00	
1/145	from the inner walls of cooled bodies	2300/00	Special arrangements or features for producing,
1/147	• • • by using augers		working or handling ice
1/16	• by partially evaporating water in a vacuum	2301/00	Special arrangements or features for producing ice
1/18	• of a particular transparency or translucency, e.g. by injecting air	2301/002	• Producing ice slurries
1/20	• • by agitation	2303/00	Special arrangements or features for producing ice
1/22	Construction of moulds; Filling devices for moulds		or snow for winter sports or similar recreational
1/24	• • for refrigerators, e.g. freezing trays		purposes, e.g. for sporting installations; Special
1/243	• • • Moulds made of plastics e.g. silicone		arrangements or features for producing artificial
1/246	• • • Moulds with separate grid structure	2202/042	snow
1/25	Filling devices for moulds	2303/042	• Snow making by using solid ice, e.g. ice crushing
3/00	Processes or apparatus specially adapted for	2303/044	Snow making using additional features, e.g. additives, liquid gas
5/00	producing ice or snow for winter sports or	2303/046	 Snow making by using low pressure air ventilators,
	similar recreational purposes, e.g. for sporting	2303/040	e.g. fan type snow canons
	installations; Producing artificial snow	2303/048	• Snow making by using means for spraying water
3/02	• for ice rinks	2303/0481	 with the use of compressed air
3/04	• for sledging or ski trails; Producing artificial snow		•
= 10.0		2305/00	Special arrangements or features for working or
5/00	Working or handling ice (F25C 3/00 takes		handling ice
5/00	precedence)	2305/022	• Harvesting ice including rotating or tilting or
5/02	Apparatus for disintegrating, removing or		pivoting of a mould or tray
5/04	harvesting ice	2305/0221	• • rotating ice mould
5/04	without the use of saws	2305/024	• Rotating rake
5/043	• • {Tools, e.g. ice picks, ice crushers, ice shavers}	2400/00	Auxiliary features or devices for producing,
5/046	••• {Ice-crusher machines}		working or handling ice
5/06	• • by deforming bodies with which the ice is in contact, e.g. using inflatable members	2400/02	• Freezing surface state
	contact, e.g. using initiatable members		-

F25C

2400/04	• Ice guide, e.g. for guiding ice blocks to storage tank
2400/06	• Multiple ice moulds or trays therefor
2400/08	• for different type of ice
2400/10	• Refrigerator units
2400/12	Means for sanitation
2400/14	• Water supply
2500/00	Problems to be solved
2500/02	• Geometry problems
2500/04	Calculation of parameters
2500/06	• Spillage or flooding of water
2500/08	• Sticking or clogging of ice
2600/00	Control issues
2600/02	• Timing
2600/04	. Control means
2700/00	Sensing or detecting of parameters; Sensors
	therefor
2700/02	therefor . Level of ice
2700/02 2700/04	
	• Level of ice
2700/04	 Level of ice Level of water Rotation angle of the ejector ejecting ice from a
2700/04 2700/06	 Level of ice Level of water Rotation angle of the ejector ejecting ice from a stationary mould
2700/04 2700/06	 Level of ice Level of water Rotation angle of the ejector ejecting ice from a stationary mould Power to drive the auger motor of an auger type ice making machine Rotating speed of the auger motor of an auger type
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