CPC COOPERATIVE PATENT CLASSIFICATION

A HUMAN NECESSITIES

FOODSTUFFS; **TOBACCO**

A22 BUTCHERING; MEAT TREATMENT; PROCESSING POULTRY OR FISH

A22C PROCESSING MEAT, POULTRY, OR FISH (preserving <u>A23B</u>; obtaining protein compositions for foodstuffs <u>A23J 1/00</u>; fish, meat or poultry preparations <u>A23L</u>; disintegrating, e.g. chopping meat, <u>B02C 18/00</u>; preparation of proteins <u>C07K 1/00</u>)

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

Processing m	Processing meat		• {Separating linked sausages}
5/00	Apparatus for mixing meat, sausage-meat, or meat	11/008	• {Conveying sausages in horizontal position (conveying hanging sausages A22C 15/001)}
	products (mixing in general <u>B01F</u>)	11/02	 Sausage filling or stuffing machines {(enclosing
7/00	Apparatus for pounding, forming, or pressing		material in preformed tubular webs <u>B65B 9/10</u>)}
	meat, sausage-meat, or meat products {(meat patty	11/0209	• • {Stuffing horn assembly}
	moulding devices for domestic use <u>A47J 43/20</u> ; ham boilers <u>A47J 27/20</u>)}	11/0218	• { with multiple interchangeable stuffing horns, e.g. magazine arrangements}
7/0007	 {specially adapted for making multi-layered meat products} 	11/0227 11/0236	. {Supplying casings to the stuffing device} {from a storage device}
7/0015	• {specially adapted for making meat-balls}	11/0245	• • {Controlling devices}
7/0023	• {Pressing means}	11/0254	• • {Sizing means}
7/003	• • {Meat-moulds}	11/0263	• • {Braking means}
7/0038	{Demoulding means}	11/0272	• • • {for casing depletion}
7/0046	{Containers in which meat is pressed and	11/0281	• • {for sausages having at least one flat end}
	moulded}	11/029	• • {with coating or lubricating means}
7/0053	• • • {Stackable containers}	11/04	• • with mechanically-operated piston moving to-
7/0061	• • • {Containers for moulding and pressing ham}		and-fro
7/0069	• • {Pressing and moulding by means of a drum}	11/06	with piston operated by liquid or gaseous means
7/0076	• • • {Devices for making meat patties}	11/08	with pressing-worm or other rotary-mounted
7/0084	• • • {comprising a reciprocating plate}		pressing-members
7/0092	• {with worms or other rotary mounted members (A22C 7/0007 takes precedence)}	11/10	• Apparatus for twisting {or linking} sausages {(subdividing filled flexible tubes to form packages,
9/00	Apparatus for tenderising meat, e.g. ham {(tenderising chemically A23L 13/00, A23L 13/70)}		involving displacement of contents <u>B65B 9/12</u> , by applying pressure and heat successively <u>B65B 51/26</u>)}
9/001	• {by injection}	2011/101	• • {for pinching and twisting}
9/002	• {by electric treatment}	2011/101	{and twisting in opposite directions}
9/004	• {by massaging}	11/104	• • {and twisting in opposite directions} • • {by means of shear or blade elements}
9/005	• • {Tumblers and rotating drums for massaging meat in their interior}	11/105	{The sheer or blade elements being displaceable parallel to the sausage string in
9/007	• {by beating}		order to create a narrow point free of meat}
9/008	• {by piercing}	11/107	• • {A string passing between two rotary members
11/00	Sausage making {(chemical aspects A23L 13/00); Apparatus for handling or conveying sausage		comprising dividing elements cooperating with each other}
	products during manufacture}	11/108	• • { with dividing elements located on the surface of
11/001	• {Machines for making skinless sausages, e.g. Frankfurters, Wieners}	11/12	a single rotary member} Apparatus for tying sausage skins {; Clipping
11/003	{Removing casings from sausages during manufacture}		sausage skins (applying clips or binding material to package folds or closures, e.g. to twisted bag necks
11/005	• • {Apparatus for binding or tying sausages or meat,		<u>B65B 51/04</u> , <u>B65B 51/08</u>)}
, 000	e.g. salami, rollades; Filling sausage products into	11/122	• • {by forming knots}
	sleeve netting}	11/125	• • {by clipping; Removal of clips}

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Processing meat A22C

11/127	• • {Forming a suspension loop}	15/00	Apparatus for hanging-up meat or sausages
13/00	Sausage casings {(made of animal intestines A22C 17/14)}		{(filling and conveying sausage products during manufacture A22C 11/00; transport through
13/0003	• {Apparatus for making sausage casings, e.g.		slaughterhouses A22B 7/001; poultry shackles
13/0003	simultaneously with stuffing artificial casings		A22C 21/0007; conveying poultry A22C 21/0053)}
	(enclosing material webs being formed into tubes in	15/001	 {Specially adapted for hanging or conveying several sausages or strips of meat}
	situ around filling nozzles <u>B65B 9/20</u>)	15/002	• • {Loops, hooks, cords for suspending single
13/0006	• • {Apparatus for making artificial collagen casings (chemical aspects <u>A22C 13/0016</u>)}		sausages; apparatus for making or conveying loops for sausages}
13/0009	• {End closures therefor}	15/003	• {Hooks or the like specially adapted for meat or
13/0013	• {Chemical composition of synthetic sausage casings}		hams or part of carcasses (spreaders for cattle A22B 5/06)}
13/0016	• • {based on proteins, e.g. collagen}	15/005	• • {Hangers with more hooks penetrating the piece
2013/002	• {made by extrusion}		of meat}
2013/0023	• • {coextruded together with the food product}	15/006	• • {Apparatus for inserting a cord into a piece of
13/0026	• {Chemical treatment of natural gut}		meat}
2013/003	• {with peeling aids, e.g. reducing adhesion between casing and product}	15/007	 {Racks for storing or smoking suspended meat or sausages (racks for pressing meat <u>A22C 7/0023</u>)}
2013/0033	• {with at least one layer of a fat impermeable material}	15/008	• {Cages specially adapted for suspending hams, meat or sausages}
2013/0036	• {with features allowing an easy opening and/or	17/00	Other devices for processing most or hones
	removal of the casing}	17/00 17/0006	Other devices for processing meat or bones • {Cutting or shaping meat}
2013/004	• {with at least one layer of a gas, e.g. oxygen, water	17/0000	 {Cutting of snaping meat} {Boards or blocks for cutting or chopping meat}
2012/0012	vapour, impermeable material}	17/0013	Producing portions of meat with predetermined
2013/0043	• {with at least one layer of a water impermeable material}	17/002	characteristics, e.g. weight or particular
2013/0046	• {suitable for impregnation with flavouring	17/0026	dimensions)
	substances, e.g. caramel, liquid smoke, spices}	17/0026	• • {Mincing and grinding meat (mincing machines B02C 18/30)}
2013/005	• {monolayer casings}	17/0033	• {Cutting slices out of a piece of meat (slicing
2013/0053	• {multilayer casings}	17/0033	machines B26D 1/143)}
	 {nets and similar open structures to hold sausages and meat in general (making nets <u>D04G</u>; filling sausage products into sleeve netting <u>A22C 11/005</u>)} 	17/004	• {Devices for deboning meat (deboning poultry A22C 21/0069; deboning operations on carcasses A22B 5/0035)}
2013/0059	• {thermoplastic casings, casings with at least one	17/0046	• {specially adapted for meat containing ribs}
	layer of thermoplastic material}	17/0040	 {specially adapted for fleat containing flos; {by injection}
2013/0063	• {containing polyamide, e.g. nylon, aramide}	17/0055	• {Putting meat on skewers}
2013/0066	 {casings according to the presence or absence of seams} 	17/0066	{for "döner kebab", "shawarma", "gyros" or the like}
2013/0069	• • {seamed casings, casings with at least one	17/0073	• {using visual recognition, X-rays, ultrasounds, or
2013/0073	longitudinal seam} {seamless casings made out of a continuous	17/00/3	other contactless means to determine quality or size of portioned meat}
	seamless tubular sheet}	17/008	• • {for measuring quality, e.g. to determine further
	 {treated in order to be conferred a rough appearance} 		processing}
2013/0079	• {printable sausage casings or sausage casings showing any kind of indicia (printing textiles	17/0086	{Calculating cutting patterns based on visual recognition}
	<u>D06P</u>)}	17/0093	• {Handling, transporting or packaging pieces of
2013/0083	• {biaxially oriented}	17/02	meat}
2013/0086	• {shrinkable casings}	17/02	• Apparatus for holding meat or bones while cutting {(holding fish A22C 25/06; holding meat for
2013/0089	• {smokable casings, e.g. permeable to liquid smoke or phenol}	17 (0.4	carving <u>A47J 43/18</u>)}
2013/0093	 {textile casings, casings with at least one layer of textile material} 	17/04 17/06	Bone cleaning devicesBone-shears; Bone-crushers
2013/0096	• {cellulosic}	17/08	• Cleaning, e.g. washing, meat or sausages {(treating
13/02	 Shirring of sausage casings {(storing preformed tubular webs on filling nozzles <u>B65B 9/15</u>)} 	17/10	offal <u>C11B</u>)} Marking meat or sausages {(marking animals
2013/021	• • {with pressurised air}		<u>A01K 11/00</u> ; labelling <u>B65C</u>)}
13/023	{Holders or packs of shirred casings}	17/12	• Apparatus for cutting-off rind {(skinning
2013/025	{Severing the shired food casing}		instruments A22B 5/16)}
2013/026	Shirring netting onto a tube		
2013/028	 {Simring netting onto a tube} {Supplying and shirring casings}		
2013/020	• • (puppiying and siming casings)		

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A22C Processing meat

17/14	 Working-up animal intestines {; Treatment thereof for the manufacture of natural sausage casings (making artificial casings <u>A22C 13/0003</u>; chemical 	25/14	• Beheading, eviscerating, or cleaning fish {(combined with removing fish-bone, skinning and filleting A22C 25/14; hand tools A22C 25/006)}
	treatment of natural casings A22C 13/0026);	25/142	• • {Beheading fish}
	Apparatus for cutting intestines; Machines for	25/145	• • {Eviscerating fish}
	pulling intestines to pieces	25/147	• • {Eviscerating by means of vacuum or suction
17/16	 Cleaning of intestines; Machines for removing fat 	20,11,	devices}
	or slime from intestines {(cleaning the stomach of	25/16	• Removing fish-bones; Filleting fish {(combined
	slaughtered animals <u>A22B 5/18</u>)}		with beheading, eviscerating A22C 25/14; hand
18/00	Plants, factories, or the like for processing meat		tools <u>A22C 25/006</u>)}
	(for processing poultry only A22C 21/00; for	25/163	• • {Removing the fins}
	processing fish only A22C 25/00)	25/166	• • {Removing loose pin bones, e.g. from fish fillets}
21/00	Dungagaing noultwe	25/17	Skinning fish
21/007	Processing poultry • {Poultry shackles}	25/18	 Cutting fish into portions
21/0007	{Killing poultry entering the processing	25/185	• • {Hand tools for cutting fish}
21/0013	machine (slaughtering pliers, slaughtering shears	25/20	 Shredding; Cutting into cubes; Flaking
	A22B 3/08)}	25/22	Fish-rolling apparatus
21/0023	• {Dividing poultry}	29/00	Processing shellfish {or bivalves}, e.g. oysters,
21/003	{Filleting poultry, i.e. extracting, cutting or		lobsters; {Devices therefor, e.g. claw locks, claw
	shaping poultry fillets}		crushers, grading devices; Processing lines}
21/0038	• {Trussing poultry}	29/005	• {Grading or classifying shellfish or bivalves}
21/0046	• {Support devices}	29/02	• Processing shrimps, lobsters or the like {; Methods
21/0053	• {Transferring or conveying devices for poultry}		or machines for the shelling of shellfish}
21/0061	• {Cleaning or disinfecting poultry}	29/021	• • {Cleaning operations on shellfish, e.g.
21/0069	 {Deboning poultry or parts of poultry} 	20/022	evisceration, brushing}
21/0076	• • {Deboning poultry legs and drumsticks}	29/022	• • • {Deveining shellfish}
21/0084	• • {Deboning poultry wings}	29/023	• • {Conveying, feeding or aligning shellfish}
21/0092	 {Skinning poultry or parts of poultry} 	29/024	• • {Opening, shelling or peeling shellfish}
21/02	 Plucking mechanisms for poultry 	29/025	(Mechanically opening and shelling crabs,
21/022	• • {with fingers}	20/026	lobsters or other hard-shelled crustaceans}
21/024	 {Hand tools for plucking poultry} 	29/026	 • {Mechanically peeling and shelling shrimps, prawns or other soft-shelled crustaceans}
21/026	• • {with rollers}	29/027	• • • {Hand tools for shelling shellfish}
21/028	• • {with discs}	29/027	 { Hand tools for sherring sherrinsh } { Beheading shellfish }
21/04	 Scalding, singeing, waxing, or dewaxing poultry 	29/028	 Processing bivalves, e.g. oysters (oyster knives with
21/06	 Eviscerating devices for poultry 	29/04	openers A47G 21/06)
21/063	• • {Hand tools for eviscerating poultry}	29/043	• • {Cleaning operations on bivalves, e.g.
21/066	• • {Extracting or removing the tendons from the	27/043	evisceration, brushing, separation of meat and
	legs of poultry}		shell material}
	al. (a.d., 19, al., 116)	29/046	• • {Opening or shucking bivalves}
rocessing fi	sh, including shellfish		

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25/00	Processing fish {; Curing of fish; Stunning of fish by electric current; Investigating fish by optical means (slaughtering fish A22B 3/08)}
25/003	• {Processing cephalopods}
25/006	• {Hand tools for processing fish}
25/02	 Washing or descaling fish
25/025	• • {Devices for washing or descaling fish by hand}
25/04	• Sorting fish; Separating ice from fish packed in ice {(investigating fish G01N 33/12)}
25/06	 Work-tables; Fish-holding and auxiliary devices in connection with work-tables
25/08	• Holding, guiding, or conveying fish before, during or after its preparation (A22C 25/06 takes precedence) {; Devices for sizing fish; Automatically adapting conveyors or processing machines to the measured size (transport in general B65G)}
25/10 25/12	 Devices for threading fish on strings or the like Arranging fish, e.g. according to the position of head and tail {(orientating articles during conveying B65G 47/24)}

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