CPC COOPERATIVE PATENT CLASSIFICATION

B **PERFORMING OPERATIONS; TRANSPORTING** (NOTES omitted)

SHAPING

B28 WORKING CEMENT, CLAY, OR STONE

B28B SHAPING CLAY OR OTHER CERAMIC COMPOSITIONS; SHAPING SLAG; SHAPING MIXTURES CONTAINING CEMENTITIOUS MATERIAL, e.g. PLASTER

(foundry moulding <u>B22C</u>; working stone or stone-like material <u>B28D</u>; shaping of substances in a plastic state, in general **B29C**; making layered products not composed wholly of these substances B32B)

NOTE

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

- "the material" means:
 - a. clay or other ceramic compositions;
 - b. slag;
 - c. mixtures with water-setting properties given by clay, cementitious material, or slag.

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups: B28B 23/08

covered by B28B 21/60, B28B 23/06

2. 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.

1/00	Producing shaped {prefabricated} articles from the material (using presses <u>B28B 3/00;</u> shaping on
	moving conveyors <u>B28B 5/00</u> ; producing tubular articles <u>B28B 21/00</u> {; producing articles with embedded elements <u>B28B 23/00</u> })
1/001	• {Rapid manufacturing of 3D objects by additive depositing, agglomerating or laminating of material (selective deposition modelling of metallic powder <u>B22F 10/00</u> ; rapid manufacturing of 3D objects in general and in particular of plastics <u>B29C 64/00</u>)}
1/002	• {assembled from preformed elements}
1/004	• {Devices for shaping artificial aggregates from ceramic mixtures or from mixtures containing

- hydraulic binder (from slag C04B 5/00; composition of artificial aggregates C04B 18/02) 1/005 • {Devices or processes for obtaining articles having
- a marble appearance (producing decorative effects B44C; design of stone surfaces, e.g. marble, B44F 9/04)
- 1/007 • {by freezing the material}
- {made from two or more materials having different 1/008 characteristics or properties (casting for producing layered articles <u>B28B 1/16</u>; feeding several succesive layers, optionally of different materials B28B 13/022; coating B28B 11/04; applying material to surfaces to form a permanent layer thereon <u>B28B 19/00</u>)}
- 1/02 • by turning or jiggering {in moulds or moulding surfaces on rotatable supports}
- 1/025 • {Potters wheels}

1/04	• by tamping or ramming (followed by pressing <u>B28B 3/02</u>)
1/045	• • {combined with vibrating or jolting}
1/08	 by vibrating or jolting {(of moulding sand <u>B22C 15/10;</u> of concrete in general <u>E04G 21/063</u>)}
1/081	• {Vibration-absorbing means}
1/082	• • {combined with a vacuum, e.g. for moisture extraction (in general <u>E04G 21/061</u>)}
1/084	 {the vibrating moulds or cores being moved horizontally for making strands of moulded articles}
1/085	• • {Introducing non-longitudinal reinforcing elements, e.g. spirally shaped}
1/087	• • by means acting on the mould {; Fixation thereof to the mould}
1/0873	• • { the mould being placed on vibrating or jolting supports, e.g. moulding tables }
2001/0876	• • • {Supports, e.g. tables, therefor}
1/093	 by means directly acting on the material, e.g. by cores wholly or partly immersed in the material {or elements acting on the upper surface of the material}({<u>B28B 1/084</u> takes precedence; } internal vibrators for compacting concrete in situ E04G 21/08)
1/0935	• • {using only elements wholly or partly immersed in the material, e.g. cores}
1/10	• and applying pressure otherwise than by the use of presses
1/105	• • • {this load also being actively vibrated or jolted}

1/14	 by simple casting, the material being neither forcibly fed nor positively compacted (for molten material <u>B28B 1/54</u>)
1/16	• for producing layered articles (coating <u>B28B 11/04</u>)
1/20	 by centrifugal or rotational casting (slip-casting involving rotation of the mould <u>B28B 1/28</u>; for molten material <u>B28B 1/54</u>)
1/24	 by injection moulding {(injection moulding of ceramic slips <u>B28B 1/265;</u> of tubular articles <u>B28B 21/38</u>)}
1/26	 by slip-casting, i.e. by casting a suspension or dispersion of the material in a liquid-absorbent or porous mould, the liquid being allowed to soak into or pass through the walls of the mould; Moulds therefor (<u>B28B 1/52</u> takes precedence){; specially for manufacturing articles starting from a ceramic slip; Moulds therefor (of tubular articles <u>B28B 21/08</u>)}
1/261	• • {Moulds therefor (absorbent moulds in general <u>B28B 7/344</u>)}
1/262	• • • {Mould materials; Manufacture of moulds or parts thereof}
1/263	• • • • {Plastics}
1/264	• • • • {Plaster}
1/265	• • {pressure being applied on the slip in the filled
	mould or on the moulded article in the mould, e.g. pneumatically, by compressing slip in a closed mould}
1/266	• • • {Means for counteracting the pressure being applied on the slip or on the moulded article in the mould, e.g. means for clamping the moulds parts together in a frame-like structure}
1/267	• {in moulds or on moulding surfaces supported by, or formed in or by, conveyors}
1/268	 {by dipping moulding surfaces in the slip (in general <u>B28B 1/38</u>)}
1/269	 {by electrophoresis (electrophoresis in general <u>C25</u>)}
1/28	 involving rotation of the mould {about a centrifugal axis}
1/29	 by profiling or strickling the material in open moulds or on moulding surfaces {(in rotary moulds <u>B28B 1/02</u>; by means of profiled rollers <u>B28B 3/12</u>, <u>B28B 3/123</u>)}
1/30	 by applying the material on to a core or other moulding surface to form a layer thereon (to form a permanent layer <u>B28B 19/00</u>)
1/32	• by projecting, e.g. spraying (spraying in general <u>B05B</u> , <u>B05D</u>)
1/34	 by centrifugal force {(centrifugally acting implements for applying plaster or the like to walls <u>E04F 21/10</u>)}
1/38	 by dipping (in general <u>B05C</u>, <u>B05D</u> {; shaping from synthetic resin <u>B29C 41/14</u>})
1/40	• • by wrapping, e.g. winding
1/42	• • • using mixtures containing fibres, e.g. for making sheets by slitting the wound layer
1/44	 by forcing cores into filled moulds for forming hollow articles
1/445	• • {Hollow punches or cores}
1/48	 tronow puteries of cores; by removing material from solid section preforms for forming hollow articles, e.g. by punching or boring

1/14	• by simple casting, the material being neither forcibly fed nor positively compacted (for molten material <u>B28B 1/54</u>)	1/50	 specially adapted for producing articles of expanded material, e.g. cellular concrete (chemical aspects {or making expanded aggregate } <u>C04B</u>)
1/16	• for producing layered articles (coating	1/503	• • {Moulds therefor}
1/20	<u>B28B 11/04</u>) • by centrifugal or rotational casting (slip-casting	1/506	• • • {with means for, or adapted for, cutting the moulded article into pieces (in general
	involving rotation of the mould <u>B28B 1/28;</u> for molten material <u>B28B 1/54</u>)	1/50	$\frac{B28B}{1}$
1/24	• by injection moulding {(injection moulding of	1/52	 specially adapted for producing articles from mixtures containing fibres, {e.g. asbestos
1/26	 ceramic slips <u>B28B 1/265</u>; of tubular articles <u>B28B 21/38</u>) by slip-casting, i.e. by casting a suspension or 	1/521	 cement}(by wrapping on to mandrels <u>B28B 1/42</u>) . {from dry mixtures to which a setting agent is applied after forming (<u>B28B 1/526, B28B 1/527</u>)
	dispersion of the material in a liquid-absorbent or porous mould, the liquid being allowed to	1/522	take precedence)}for producing multi-layered articles
	soak into or pass through the walls of the mould; Moulds therefor (<u>B28B 1/52</u> takes precedence){;	1/523	(<u>B28B 1/526</u> , <u>B28B 1/527</u> take precedence)} • {containing metal fibres (<u>B28B 1/526</u> ,
	specially for manufacturing articles starting from a ceramic slip; Moulds therefor (of tubular articles	1/525	 <u>B28B 1/527</u> take precedence)} {containing organic fibres, e.g. wood fibres
1/261	<u>B28B 21/08</u>)}. {Moulds therefor (absorbent moulds in general	1/526	 (B28B 1/526, B28B 1/527 take precedence)} (by delivering the materials on a conveyor of the
1/262	B28B 7/344)} {Mould materials; Manufacture of moulds or		endless-belt type}
1/263	 a {Mount materials, Manufacture of mounts of parts thereof} b {Plastics} 	1/527	 {by delivering the materials on a rotating drum, e.g. a sieve drum, from which the materials are picked up by a felt}
1/264	{Plaster}	1/528	• { for producing corrugated sheets (<u>B28B 1/526</u> ,
1/265	• • {pressure being applied on the slip in the filled mould or on the moulded article in the mould, e.g.	1/54	 <u>B28B 1/527</u> take precedence)} specially adapted for producing articles from
1/266	pneumatically, by compressing slip in a closed mould} {Means for counteracting the pressure being	1/01	molten material, e.g. slag {refractory ceramic materials}(chemical aspects <u>C04B</u> {; from molten bituminous material <u>B29C</u> })
1/200	applied on the slip or on the moulded article in the mould, e.g. means for clamping the moulds	3/00	Producing shaped articles from the material
1/267	parts together in a frame-like structure} {in moulds or on moulding surfaces supported by,		by using presses (shaping on moving conveyors <u>B28B 5/00</u>); Presses specially adapted therefor
1 10 10	or formed in or by, conveyors}	3/003	(presses in general <u>B30B</u>)(Pressing by means acting upon the material
1/268 1/269	 {by dipping moulding surfaces in the slip (in general <u>B28B 1/38</u>)} (but electron because (electron because in general) 	5/005	via flexible mould wall parts, e.g. by means of inflatable cores, isostatic presses (isostatic presses in
	 {by electrophoresis (electrophoresis in general <u>C25</u>)} 	3/006	general <u>B30B 5/02</u>){Pressing by atmospheric pressure, as a result of
1/28	 involving rotation of the mould {about a centrifugal axis} 	5/000	vacuum generation or by gas or liquid pressure acting directly upon the material, e.g. jets of
1/29	 by profiling or strickling the material in open moulds or on moulding surfaces { (in rotary moulds <u>B28B 1/02</u>; by means of profiled rollers <u>B28B 3/12</u>, 		compressed air (moulds for treating with gases or degassing <u>B28B 7/44;</u> compacting concrete by
1/30	<u>B28B 3/123</u>)by applying the material on to a core or other	3/02	means of vacuum in general E04G 21/061)wherein a ram exerts pressure on the material in a
	moulding surface to form a layer thereon (to form a	2/021	moulding space; Ram heads of special form
	permanent layer <u>B28B 19/00</u>)	3/021 3/022	 . {Ram heads of special form} . {combined with vibrating or jolting}
1/32	• by projecting, e.g. spraying (spraying in general <u>B05B</u> , <u>B05D</u>)	3/022	 the pressure on the material being transmitted through flexible or resilient wall parts, e.g.
1/34	 by centrifugal force {(centrifugally acting implements for applying plaster or the like to walls E04F 21/10)} 		flexible cushions on the ramming surface, resilient wall parts pressing as a result of
1/38	• by dipping (in general <u>B05C</u> , <u>B05D</u> {; shaping from synthetic resin <u>B29C 41/14</u> })	3/025	deformation caused by ram pressure}. {Hot pressing, e.g. of ceramic materials}
1/40	• • by wrapping, e.g. winding	3/027	• • {using a bottom press ram actuated upwardly
1/42	• • using mixtures containing fibres, e.g. for making sheets by slitting the wound layer	3/028	towards mould covers}Centering the press head, e.g. using guiding pins
1/44	 by forcing cores into filled moulds for forming hollow articles 	3/04	 or chamfered mould edges} with one ram per mould (<u>B28B 3/10</u> takes
1/445	• • {Hollow punches or cores}	2/07	precedence)
1/48	• by removing material from solid section preforms	3/06 3/08	with two or more ram and mould setswith two or more rams per mould
	for forming hollow articles, e.g. by punching or	3/083	• • {The juxtaposed rams working in the same
	boring	5,005	direction}

3/086	• • {The rams working in different directions}
3/10	• • each charge of material being compressed against
5/10	previously formed body
2/12	
3/12	• wherein one or more rollers exert pressure on the
	material
3/123	• • {on material in moulds or on moulding surfaces
	moving continuously underneath or between the
	rollers, e.g. on an endless belt}
3/126	• {on material passing directly between the co-
5/120	operating rollers}
2/14	
3/14	• • with co-operating pocketed rollers
3/16	• • with co-operating profiled rollers
3/18	• Roller-and-ring machines, i.e. with roller
	disposed within a ring and co-operating with the
	inner surface of the ring
3/20	• wherein the material is extruded {(extrusion
5/20	
	moulding of plastics <u>B29C 48/00</u>)}
3/201	• • {Means for heating or cooling the barrel}
2003/203	• • {for multi-channelled structures, e.g. honeycomb
	structures}
3/205	• • {using vibrations}
3/205	 (using violations) (Forcing the material through screens or slots)
	· · · · · · · · · · · · · · · · · · ·
3/208	• • {Exchangeable wear parts, e.g. liners}
3/22	• • by screw or worm
3/222	• • {Screw or worm constructions}
3/224	• • • {Twin screw extruders, e.g. double shaft
	extruders}
3/226	• • {Means for heating or cooling the screw}
3/228	• • • {Slipform casting extruder, e.g. self-propelled
	extruder}
3/24	• • by reciprocating plunger
3/26	• • Extrusion dies
3/2609	
3/2609	• • • {Containing rotating elements perpendicular to the axis of extrusion }
	the axis of extrusion}
3/2618	the axis of extrusion } {using lubricating means}
	the axis of extrusion }{using lubricating means}{using means for making hollow objects with
3/2618	 the axis of extrusion } {using lubricating means} {using means for making hollow objects with transverse walls, e.g. hollow objects closed on
3/2618	the axis of extrusion }{using lubricating means}{using means for making hollow objects with
3/2618	 the axis of extrusion } {using lubricating means} {using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides}
3/2618 3/2627	 the axis of extrusion } {using lubricating means} {using means for making hollow objects with transverse walls, e.g. hollow objects closed on
3/2618 3/2627 3/2636	 the axis of extrusion } {using lubricating means } {using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } {using means for co-extruding different materials }
3/2618 3/2627	 the axis of extrusion } . {using lubricating means } . {using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } . {using means for co-extruding different materials } . {using means for inserting reinforcing
3/2618 3/2627 3/2636 3/2645	 the axis of extrusion } . { using lubricating means } . { using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } . { using means for co-extruding different materials } . { using means for inserting reinforcing members }
3/2618 3/2627 3/2636 3/2645 3/2654	 the axis of extrusion } {using lubricating means } {using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } {using means for co-extruding different materials } {using means for inserting reinforcing members } {Means for heating or cooling the die }
3/2618 3/2627 3/2636 3/2645 3/2654 3/2654	 the axis of extrusion } {using lubricating means } {using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } {using means for co-extruding different materials } {using means for inserting reinforcing members } {Means for heating or cooling the die } {Exchangeable wear parts, e.g. liners }
3/2618 3/2627 3/2636 3/2645 3/2654	 the axis of extrusion } . {using lubricating means } . {using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } . {using means for co-extruding different materials } . {using means for inserting reinforcing members } . {Means for heating or cooling the die } . {Exchangeable wear parts, e.g. liners } . {Means for adjusting the flow inside the die,
3/2618 3/2627 3/2636 3/2645 3/2654 3/2654	 the axis of extrusion } {using lubricating means } {using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } {using means for co-extruding different materials } {using means for inserting reinforcing members } {Means for heating or cooling the die } {Exchangeable wear parts, e.g. liners }
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3/2618 3/2627 3/2636 3/2645 3/2654 3/2663 3/2672	 the axis of extrusion } . {using lubricating means } . {using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } . {using means for co-extruding different materials } . {using means for inserting reinforcing members } . {Means for heating or cooling the die } . {Exchangeable wear parts, e.g. liners } . {Means for adjusting the flow inside the die, e.g. using choke means } . {Adjustable dies, e.g. for altering the shape of
3/2618 3/2627 3/2636 3/2645 3/2654 3/2663 3/2672 3/2681	 the axis of extrusion } {using lubricating means } {using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } {using means for co-extruding different materials } {using means for inserting reinforcing members } {Means for heating or cooling the die } {Exchangeable wear parts, e.g. liners } {Means for adjusting the flow inside the die, e.g. using choke means } {Adjustable dies, e.g. for altering the shape of the product }
3/2618 3/2627 3/2636 3/2645 3/2654 3/2663 3/2672	 the axis of extrusion } . {using lubricating means } . {using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } . {using means for co-extruding different materials } . {using means for inserting reinforcing members } . {Means for heating or cooling the die } . {Exchangeable wear parts, e.g. liners } . {Means for adjusting the flow inside the die, e.g. using choke means } . {Adjustable dies, e.g. for altering the shape of the product } . {For multi-channeled structures, e.g.
3/2618 3/2627 3/2636 3/2645 3/2654 3/2663 3/2672 3/2681	 the axis of extrusion } {using lubricating means } {using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } {using means for co-extruding different materials } {using means for inserting reinforcing members } {Means for heating or cooling the die } {Exchangeable wear parts, e.g. liners } {Means for adjusting the flow inside the die, e.g. using choke means } {Adjustable dies, e.g. for altering the shape of the product }
3/2618 3/2627 3/2636 3/2645 3/2654 3/2663 3/2672 3/2681 3/269	 the axis of extrusion } {using lubricating means } {using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } {using means for co-extruding different materials } {using means for inserting reinforcing members } {Means for heating or cooling the die } {Exchangeable wear parts, e.g. liners } {Means for adjusting the flow inside the die, e.g. using choke means } {Adjustable dies, e.g. for altering the shape of the product } {For multi-channeled structures, e.g. honeycomb structures }
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3/2618 3/2627 3/2636 3/2645 3/2654 3/2663 3/2672 3/2681 3/269 5/00	 the axis of extrusion } . {using lubricating means } . {using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } . {using means for co-extruding different materials } . {using means for inserting reinforcing members } . {Means for heating or cooling the die } . {Exchangeable wear parts, e.g. liners } . {Means for adjusting the flow inside the die, e.g. using choke means } . {Adjustable dies, e.g. for altering the shape of the product } . {For multi-channeled structures, e.g. honeycomb structures }
3/2618 3/2627 3/2636 3/2645 3/2654 3/2663 3/2672 3/2681 3/269	 the axis of extrusion } . { using lubricating means } . { using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } . { using means for co-extruding different materials } . { using means for inserting reinforcing members } . { Means for heating or cooling the die } . { Exchangeable wear parts, e.g. liners } . { Means for adjusting the flow inside the die, e.g. using choke means } . { Adjustable dies, e.g. for altering the shape of the product } . { For multi-channeled structures, e.g. honeycomb structures } Producing shaped articles from the material in moulds or on moulding surfaces, carried or formed by, in or on conveyors irrespective of the manner of shaping . on conveyors of the endless-belt or chain type (in
3/2618 3/2627 3/2636 3/2645 3/2654 3/2663 3/2672 3/2681 3/269 5/00	 the axis of extrusion } . { using lubricating means } . { using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } . { using means for co-extruding different materials } . { using means for inserting reinforcing members } . { Means for heating or cooling the die } . { Exchangeable wear parts, e.g. liners } . { Means for adjusting the flow inside the die, e.g. using choke means } . { Adjustable dies, e.g. for altering the shape of the product } . { For multi-channeled structures, e.g. honeycomb structures } Producing shaped articles from the material in moulds or on moulding surfaces, carried or formed by, in or on conveyors irrespective of the manner of shaping on conveyors of the endless-belt or chain type (in combination with pressing rollers <u>B28B 3/12</u>)
3/2618 3/2627 3/2636 3/2645 3/2654 3/2663 3/2672 3/2681 3/269 5/00	 the axis of extrusion } . { using lubricating means } . { using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } . { using means for co-extruding different materials } . { using means for inserting reinforcing members } . { Means for heating or cooling the die } . { Exchangeable wear parts, e.g. liners } . { Means for adjusting the flow inside the die, e.g. using choke means } . { Adjustable dies, e.g. for altering the shape of the product } . { For multi-channeled structures, e.g. honeycomb structures } Producing shaped articles from the material in moulds or on moulding surfaces, carried or formed by, in or on conveyors irrespective of the manner of shaping . on conveyors of the endless-belt or chain type (in
3/2618 3/2627 3/2636 3/2645 3/2654 3/2663 3/2672 3/2681 3/269 5/00 5/02	 the axis of extrusion } . { using lubricating means } . { using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } . { using means for co-extruding different materials } . { using means for inserting reinforcing members } . { Means for heating or cooling the die } . { Exchangeable wear parts, e.g. liners } . { Means for adjusting the flow inside the die, e.g. using choke means } . { Adjustable dies, e.g. for altering the shape of the product } . { For multi-channeled structures, e.g. honeycomb structures } Producing shaped articles from the material in moulds or on moulding surfaces, carried or formed by, in or on conveyors irrespective of the manner of shaping on conveyors of the endless-belt or chain type (in combination with pressing rollers <u>B28B 3/12</u>)
3/2618 3/2627 3/2636 3/2645 3/2654 3/2663 3/2672 3/2681 3/269 5/00 5/02 5/021	 the axis of extrusion } . { using lubricating means } . { using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } . { using means for co-extruding different materials } . { using means for inserting reinforcing members } . { Means for heating or cooling the die } . { Means for heating or cooling the die } . { Means for adjusting the flow inside the die, e.g. using choke means } . { Adjustable dies, e.g. for altering the shape of the product } . { For multi-channeled structures, e.g. honeycomb structures } Producing shaped articles from the material in moulds or on moulding surfaces, carried or formed by, in or on conveyors irrespective of the manner of shaping on conveyors of the endless-belt or chain type (in combination with pressing rollers B28B 3/12) . { the moulds or the moulding surfaces being
3/2618 3/2627 3/2636 3/2645 3/2654 3/2663 3/2672 3/2681 3/269 5/00 5/02 5/021	 the axis of extrusion } . { using lubricating means } . { using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } . { using means for co-extruding different materials } . { using means for inserting reinforcing members } . { Means for heating or cooling the die } . { Means for heating or cooling the die } . { Means for adjusting the flow inside the die, e.g. using choke means } . { Adjustable dies, e.g. for altering the shape of the product } . { For multi-channeled structures, e.g. honeycomb structures } Producing shaped articles from the material in moulds or on moulding surfaces, carried or formed by, in or on conveyors irrespective of the manner of shaping on conveyors of the endless-belt or chain type (in combination with pressing rollers B28B 3/12) . { the moulds or the moulding surfaces being individual independant units and being
3/2618 3/2627 3/2636 3/2645 3/2654 3/2663 3/2672 3/2681 3/269 5/00 5/02 5/021	 the axis of extrusion } . { using lubricating means } . { using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } . { using means for co-extruding different materials } . { using means for inserting reinforcing members } . { Means for heating or cooling the die } . { Means for heating or cooling the die } . { Means for adjusting the flow inside the die, e.g. using choke means } . { Adjustable dies, e.g. for altering the shape of the product } . { For multi-channeled structures, e.g. honeycomb structures } Producing shaped articles from the material in moulds or on moulding surfaces, carried or formed by, in or on conveyors irrespective of the manner of shaping on conveyors of the endless-belt or chain type (in combination with pressing rollers B28B 3/12) . { the shaped articles being of definite length } . { the moulds or the moulding surfaces being individual independant units and being discontinuously fed (feeding B28B 13/0215
3/2618 3/2627 3/2636 3/2645 3/2654 3/2663 3/2672 3/2681 3/269 5/00 5/02 5/021 5/022	 the axis of extrusion } . { using lubricating means } . { using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } . { using means for co-extruding different materials } . { using means for inserting reinforcing members } . { Means for heating or cooling the die } . { Means for heating or cooling the die } . { Means for adjusting the flow inside the die, e.g. using choke means } . { Adjustable dies, e.g. for altering the shape of the product } . { For multi-channeled structures, e.g. honeycomb structures } Producing shaped articles from the material in moulds or on moulding surfaces, carried or formed by, in or on conveyors irrespective of the manner of shaping on conveyors of the endless-belt or chain type (in combination with pressing rollers B28B 3/12) . { the shaped articles being of definite length } . { the moulds or the moulding surfaces being individual independant units and being discontinuously fed (feeding B28B 13/0215 and sub-groups) }
3/2618 3/2627 3/2636 3/2645 3/2654 3/2663 3/2672 3/2681 3/269 5/00 5/02 5/021	 the axis of extrusion } . { using lubricating means } . { using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } . { using means for co-extruding different materials } . { using means for inserting reinforcing members } . { Means for heating or cooling the die } . { Means for heating or cooling the die } . { Means for adjusting the flow inside the die, e.g. using choke means } . { Adjustable dies, e.g. for altering the shape of the product } . { For multi-channeled structures, e.g. honeycomb structures } Producing shaped articles from the material in moulds or on moulding surfaces, carried or formed by, in or on conveyors irrespective of the manner of shaping on conveyors of the endless-belt or chain type (in combination with pressing rollers B28B 3/12) . { the shaped articles being of definite length } . { the moulds or the moulding surfaces being individual independant units and being discontinuously fed (feeding B28B 13/0215 and sub-groups) } . (Moulds mounted on an endless chain
3/2618 3/2627 3/2636 3/2645 3/2654 3/2663 3/2672 3/2681 3/269 5/00 5/02 5/021 5/022	 the axis of extrusion } . { using lubricating means } . { using means for making hollow objects with transverse walls, e.g. hollow objects closed on all sides } . { using means for co-extruding different materials } . { using means for inserting reinforcing members } . { Means for heating or cooling the die } . { Means for heating or cooling the die } . { Means for adjusting the flow inside the die, e.g. using choke means } . { Adjustable dies, e.g. for altering the shape of the product } . { For multi-channeled structures, e.g. honeycomb structures } Producing shaped articles from the material in moulds or on moulding surfaces, carried or formed by, in or on conveyors irrespective of the manner of shaping on conveyors of the endless-belt or chain type (in combination with pressing rollers B28B 3/12) . { the shaped articles being of definite length } . { the moulds or the moulding surfaces being individual independant units and being discontinuously fed (feeding B28B 13/0215 and sub-groups) }

5/025	••• {the moulds or the moulding surfaces being divided by separating walls and being
	continuously fed (feeding <u>B28B 13/02</u>)}
5/026	• • {the shaped articles being of indefinite length}
5/027	 {the moulding surfaces being of the indefinite length type, e.g. belts, and being continuously fed (feeding <u>B28B 13/02</u>)}
5/028	• • • {the moulding surfaces being of definite length, e.g. succession of moving pallets, and being continuously fed (feeding <u>B28B 13/02</u>)}
5/04	 in moulds moved in succession past one or more shaping stations (on turn-tables <u>B28B 5/06</u>)
2005/041	• • {with compacting of the material}
2005/042	• • • {only by vibrating or jolting}
2005/044	• • • {only by tamping or ramming}
2005/045	• • • {only by pressing}
2005/047	• • • {by tamping, ramming or pressing as well as by
2005/048	vibrating, jolting or by rolling}. {in moulds carried on a conveyor of the endless-
	belt type}
5/06	• in moulds on a turntable
5/08	• intermittently rotated
5/10	• in moulds carried on the circumference of a rotating drum
5/12	• • intermittently rotated
2005/125	• • • {Revolving presses}
7/00	Moulds; Cores; Mandrels (specially adapted for
1100	the production of the tubular articles <u>B28B 21/00</u> ;
	{for casting metals <u>B22C 9/00</u> ; moulds for plastic
	materials in general <u>B29C 33/00</u> ; falsework, forms or
	shutterings for forming buildings or parts thereof \underline{in} situ E04G 9/00 E04G 15/001)
7/0002	<u>situ E04G 9/00</u> - <u>E04G 15/00</u> })
7/0002	 <u>situ E04G 9/00</u> - <u>E04G 15/00</u>}) {Auxiliary parts or elements of the mould}
7/0002 7/0005	<u>situ E04G 9/00</u> - <u>E04G 15/00</u> })
	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio
7/0005	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]}
7/0005	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during
7/0005	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding}
7/0005 7/0008	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals}
7/0005 7/0008 7/0011	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould
7/0005 7/0008 7/0011	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted
7/0005 7/0008 7/0011	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted for counteracting a pressure being applied on
7/0005 7/0008 7/0011	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted for counteracting a pressure being applied on a slip or on the moulded article in the mould
7/0005 7/0008 7/0011 7/0014	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted for counteracting a pressure being applied on a slip or on the moulded article in the mould <u>B28B 1/266</u>)}
7/0005 7/0008 7/0011 7/0014 7/0017	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted for counteracting a pressure being applied on a slip or on the moulded article in the mould B28B 1/266)} {for attaching mould walls on mould tables}
7/0005 7/0008 7/0011 7/0014 7/0017 7/002	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted for counteracting a pressure being applied on a slip or on the moulded article in the mould B28B 1/266)} {for attaching mould walls on mould tables} {for attaching mould walls on mould tables}
7/0005 7/0008 7/0011 7/0014 7/0017 7/002 7/0023	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted for counteracting a pressure being applied on a slip or on the moulded article in the mould B28B 1/266)} {for attaching mould walls on mould tables} {to attaching mould walls on mould tables} {to attaching mould walls on mould tables} {to attaching mould walls on mould tables}
7/0005 7/0008 7/0011 7/0014 7/0017 7/002 7/0023 7/0026	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted for counteracting a pressure being applied on a slip or on the moulded article in the mould B28B 1/266)} {for attaching mould walls on mould tables} {using magnets} {using adhesive}
7/0005 7/0008 7/0011 7/0014 7/0017 7/002 7/0023	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted for counteracting a pressure being applied on a slip or on the moulded article in the mould B28B 1/266)} {for attaching mould walls on mould tables} {using magnets} {using adhesive} {Moulds or moulding surfaces not
7/0005 7/0008 7/0011 7/0014 7/0017 7/002 7/0023 7/0026	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted for counteracting a pressure being applied on a slip or on the moulded article in the mould B28B 1/266)} {for attaching mould walls on mould tables} {using magnets} {using adhesive} {Moulds or moulding surfaces not covered by B28B 7/0058 - B28B 7/36 and
7/0005 7/0008 7/0011 7/0014 7/0017 7/002 7/0023 7/0026	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted for counteracting a pressure being applied on a slip or on the moulded article in the mould B28B 1/266)} {for attaching mould walls on mould tables} {using magnets} {using vacuum} {using adhesive} {Moulds or moulding surfaces not covered by B28B 7/0058 - B28B 7/36 and B28B 7/40 - B28B 7/465, e.g. moulds assembled
7/0005 7/0008 7/0011 7/0014 7/0017 7/002 7/0023 7/0026 7/0029	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted for counteracting a pressure being applied on a slip or on the moulded article in the mould B28B 1/266)} {for attaching mould walls on mould tables} {using magnets} {using vacuum} {using adhesive} {Moulds or moulding surfaces not covered by B28B 7/0058 - B28B 7/36 and B28B 7/40 - B28B 7/465, e.g. moulds assembled from several parts}
7/0005 7/0008 7/0011 7/0014 7/0017 7/002 7/0023 7/0026	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted for counteracting a pressure being applied on a slip or on the moulded article in the mould B28B 1/266)} {for attaching mould walls on mould tables} {using magnets} {using vacuum} {using adhesive} {Moulds or moulding surfaces not covered by B28B 7/0058 - B28B 7/36 and B28B 7/40 - B28B 7/465, e.g. moulds assembled
7/0005 7/0008 7/0011 7/0014 7/0017 7/002 7/0023 7/0026 7/0029	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted for counteracting a pressure being applied on a slip or on the moulded article in the mould B28B 1/266)} {for attaching mould walls on mould tables} {using magnets} {using vacuum} {using adhesive} {Moulds or moulding surfaces not covered by B28B 7/0058 - B28B 7/36 and B28B 7/40 - B28B 7/405, e.g. moulds assembled from several parts} {Moulding tables or similar mainly horizontal
7/0005 7/0008 7/0011 7/0014 7/0017 7/002 7/0023 7/0026 7/0029 7/0032	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted for counteracting a pressure being applied on a slip or on the moulded article in the mould B28B 1/266)} {for attaching mould walls on mould tables} {using magnets} {using adhesive} {Moulds or moulding surfaces not covered by B28B 7/0058 - B28B 7/36 and B28B 7/40 - B28B 7/058, e.g. moulds assembled from several parts} {Moulds characterised by the way in which the sidewalls of the mould and the moulded
7/0005 7/0008 7/0011 7/0014 7/0017 7/002 7/0023 7/0026 7/0029 7/0032	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted for counteracting a pressure being applied on a slip or on the moulded article in the mould B28B 1/266)} {for attaching mould walls on mould tables} {using magnets} {using adhesive} {Moulds or moulding surfaces not covered by B28B 7/0058 - B28B 7/36 and B28B 7/40 - B28B 7/465, e.g. moulds assembled from several parts} {Moulds characterised by the way in which
7/0005 7/0008 7/0011 7/0014 7/0017 7/002 7/0023 7/0026 7/0029 7/0032	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted for counteracting a pressure being applied on a slip or on the moulded article in the mould B28B 1/266)} {for attaching mould walls on mould tables} {to a slip or on the moulded article in the mould B28B 1/266)} {to attaching mould walls on mould tables} {to a slip or on the moulded article in the mould B28B 1/266)} {to attaching mould walls on mould tables} {to a slip or on the moulded article in the mould B28B 1/266)} {to a slip or on the mould attack on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or moulding surfaces not covered by B28B 7/40. B28B 7/40. B28B 7/40. B28B 7/40. Cast or moulding surfaces on the mould a
7/0005 7/0008 7/0011 7/0014 7/0017 7/002 7/0023 7/0026 7/0029 7/0032	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted for counteracting a pressure being applied on a slip or on the moulded article in the mould B28B 1/266)} {for attaching mould walls on mould tables} {to attaching magnets} {to attaching tables or similar mainly horizontal moulding surfaces} {Moulds characterised by the way in which the sidewalls of the mould and the moulded article move with respect to each other during demoulding} {the sidewalls of mould and moulded article
7/0005 7/0008 7/0011 7/0014 7/0017 7/002 7/0023 7/0026 7/0029 7/0032 7/0035	 situ E04G 9/00 - E04G 15/00}) {Auxiliary parts or elements of the mould} {Mould identification means, e.g. by radio frequency identification device [RFID]} {Venting channels, e.g. to avoid vacuum during demoulding or allowing air to escape during feeding, pressing or moulding} {Mould seals} {Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps (clamping means specially adapted for counteracting a pressure being applied on a slip or on the moulded article in the mould B28B 1/266)} {for attaching mould walls on mould tables} {to a slip or on the moulded article in the mould B28B 1/266)} {to attaching mould walls on mould tables} {to a slip or on the moulded article in the mould B28B 1/266)} {to attaching mould walls on mould tables} {to a slip or on the moulded article in the mould B28B 1/266)} {to a slip or on the mould attack on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or on the mould walls on mould tables} {to a slip or moulding surfaces not covered by B28B 7/40. B28B 7/40. B28B 7/40. B28B 7/40. Cast or moulding surfaces on the mould a

 7/0044 (the sidewalls of the moulde bring only tilted away from the sidewalls of the moulded article, e.g. moulds with hingedly mounted sidewalls) 2007/0047 (Mould seals) 2007/005 (Mould pates) found parts, e.g. for attaching mould walls on mould tables; Mould clamps) 2007/005 (for attaching mould walls on mould tables) 7/0055 (Mould pates); Mould pates) 7/0058 . (Moulds, cores or mandrels with provisions concerning the elimination of superfluous material; Moulds with burr-removing means provided therein or carried thereby) 7/0061 . (Moulds, cores or mandrels specially adapted for mechanically working moulding surfaces during moulding or demoulding . e.g. smoothing by means of mould walls driven during moulding or of parts acting during demoulding.) 7/0064 . (Moulds characterised by special surfaces for producing a desired surface of a moulded article, e.g. profiled or polished moulding surfaces.) 7/0067 (with moulding surfaces simulating natural effets, e.g. wood or stone) 7/0076 (with moulding surfaces simulating natural effets, e.g. wood or stone) 7/0076 (with surfaces for moulding interlocking means, e.g. grooves and ribs) 7/0082 (with surfaces for moulding parallel grooves or risk (B28B 7/0073, B28B 7/0073, B28B 7/0079 takes precedence)) 7/0085 (Moulds for concrete test samples) 7/0086 . (Moulds for concrete test samples) 7/0091 . (Transformable mould allowing the change of shape of an initial moulded preform by preform deformation or the change of its size by moulding on the preform) 7/0074 (Moulds for concrete test samples) 7/0075 (Moulds for concrete test samples) 7/0076 (Moulds for concrete test samples) 7/0079 (Woulds for concrete test samples) 7/0079 (Moulds for concrete test samp	7/0041	• • • {the sidewalls of the mould being moved only parallelly away from the sidewalls of the moulded article}
 2007/005 Fastening means for mould parts, e.g. for attaching mould walls on mould tables; Mould clamps } 2007/0052 For attaching mould walls on mould tables } 7/0055 (Moulds, cores or mandrels with provisions concerning the elimination of superfluous material; Moulds with burr-removing means provided therein or carried thereby) 7/0061 (Moulds, cores or mandrels specially adapted for mechanically working moulding surfaces during moulding or demoulding : a sum of mould walls driven during moulding or of parts acting during demoulding surfaces for producing a desired surface of a moulded article, e.g. profiled or polished moulding surfaces (B28B 7/36 takes precedence; producing decorative effects B44C; designs of stone surfaces B44E) 7/0067 (with moulding surfaces simulating natural effets, e.g. wood or stone) 7/0073 (with surfaces for moulding letters or marks) 7/0074 (with surfaces for moulding interlocking means, e.g. grooves and ribs) 7/0082 (with surfaces for moulding parallel grooves or ribs (B28B 7/007) takes precedence)) 7/0085 (with surfaces for moulding parallel grooves or ribs (B28B 7/007) takes precedence) 7/0088 (Woulds in which at least one surface of the moulded article serves as mould and press-ram assembles) 7/0091 (Fransformable moulds allowing the change of shape of an initial moulded preform by preform deformation or the change of its size by moulding on the preform) 7/0094 (Moulds in valicate being made of or being supported by aplurality of small elements, e.g. to creat double curvatures) 7/025 (the mould surface being made of or being supported by aplurality of small elements, e.g. to creat double curvatures) 7/04 on or more of the pa	7/0044	away from the sidewalls of the moulded article,
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 shape of an initial moulded preform by preform deformation or the change of its size by moulding on the preform} 7/0094 . {Moulds for concrete test samples} 7/0097 . {Press moulds; Press-mould and press-ram assemblies} 7/02 . Moulds with adjustable parts {specially for modifying at will the dimensions or form of the moulded article} 7/025 . {the mould surface being made of or being supported by a plurality of small elements, e.g. to create double curvatures} 7/04 . one or more of the parts being pivotally mounted 7/06 . Moulds with flexible parts 7/08 . Moulds provided with means for tilting or inverting 7/08 . {Tiltable moulding tables or similar moulding surfaces (specially for casting and erecting walls or parts thereof during construction work 		• {Moulds in which at least one surface of the moulded article serves as mould surface, e.g. moulding articles on or against a previously shaped
 7/0097 . {Press moulds; Press-mould and press-ram assemblies} 7/02 . Moulds with adjustable parts {specially for modifying at will the dimensions or form of the moulded article} 7/025 . {the mould surface being made of or being supported by a plurality of small elements, e.g. to create double curvatures} 7/04 . one or more of the parts being pivotally mounted 7/06 . Moulds with flexible parts 7/065 . {Casting in sack or bag like moulds} 7/08 . Moulds provided with means for tilting or inverting 7/082 . {Tiltable moulding tables or similar moulding surfaces (specially for casting and erecting walls or parts thereof during construction work 	7/0091	shape of an initial moulded preform by preform deformation or the change of its size by moulding
 assemblies} 7/02 Moulds with adjustable parts {specially for modifying at will the dimensions or form of the moulded article} 7/025 . {the mould surface being made of or being supported by a plurality of small elements, e.g. to create double curvatures} 7/04 . one or more of the parts being pivotally mounted 7/06 Moulds with flexible parts 7/065 . {Casting in sack or bag like moulds} 7/08 Moulds provided with means for tilting or inverting 7/082 . {Tiltable moulding tables or similar moulding surfaces (specially for casting and erecting walls or parts thereof during construction work 	7/0094	• {Moulds for concrete test samples}
 modifying at will the dimensions or form of the moulded article} 7/025 . {the mould surface being made of or being supported by a plurality of small elements, e.g. to create double curvatures} 7/04 . one or more of the parts being pivotally mounted 7/06 . Moulds with flexible parts 7/065 . {Casting in sack or bag like moulds} 7/08 . Moulds provided with means for tilting or inverting 7/082 . {Tiltable moulding tables or similar moulding surfaces (specially for casting and erecting walls or parts thereof during construction work 	7/0097	· · · · · · · · · · · · · · · · · · ·
 supported by a plurality of small elements, e.g. to create double curvatures} 7/04 . one or more of the parts being pivotally mounted 7/06 . Moulds with flexible parts 7/065 . {Casting in sack or bag like moulds} 7/08 . Moulds provided with means for tilting or inverting 7/082 . {Tiltable moulding tables or similar moulding surfaces (specially for casting and erecting walls or parts thereof during construction work 	7/02	modifying at will the dimensions or form of the
 7/06 . Moulds with flexible parts 7/065 . {Casting in sack or bag like moulds} 7/08 . Moulds provided with means for tilting or inverting 7/082 . {Tiltable moulding tables or similar moulding surfaces (specially for casting and erecting walls or parts thereof during construction work 	7/025	supported by a plurality of small elements, e.g. to
 7/06 . Moulds with flexible parts 7/065 . {Casting in sack or bag like moulds} 7/08 . Moulds provided with means for tilting or inverting 7/082 . {Tiltable moulding tables or similar moulding surfaces (specially for casting and erecting walls or parts thereof during construction work 	7/04	• • one or more of the parts being pivotally mounted
 7/065 . {Casting in sack or bag like moulds} 7/08 . Moulds provided with means for tilting or inverting 7/082 . {Tiltable moulding tables or similar moulding surfaces (specially for casting and erecting walls or parts thereof during construction work 	7/06	
 7/08 7/082 4 Tiltable moulding tables or similar moulding surfaces (specially for casting and erecting walls or parts thereof during construction work 		-
7/082 • • {Tiltable moulding tables or similar moulding surfaces (specially for casting and erecting walls or parts thereof during construction work		
		• • {Tiltable moulding tables or similar moulding surfaces (specially for casting and erecting walls or parts thereof during construction work

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//085	• • {for making double wall panels}
7/087	• • {using rocker or rolling means}
7/10	 Moulds with means incorporated therein, or carried thereby, for ejecting {or detaching} the moulded article ({flexible moulds bent open for ejecting B28B 7/06; ejecting by tilting or inverting the mould B28B 7/08; } devices, not forming part of the mould, for ejecting the moulded article B28B 13/06)
7/12	• • by fluid pressure {, e.g. acting through flexible wall parts or linings of the moulds}
7/14	• Moulds with means incorporated therein, or carried thereby, for cutting the moulded article into parts ({for expanded material <u>B28B 1/506</u> ; } cutting means independent of the mould <u>B28B 11/14</u>)
7/16	• Moulds for making shaped articles with cavities or holes open to the surface {, e.g. with blind holes}
7/162	• • {for building blocks or similar block-shaped articles}
7/164	• • {for plates, panels, or similar sheet- or disc- shaped articles}
7/166	• • {for oblong articles, e.g. hollow masts}
7/168	• • {for holders or similar hollow articles, e.g. vaults, sewer pits}
7/18	• • the holes passing completely through the article
7/183	 {for building blocks or similar block-shaped objects}
7/186	 . • {for plates, panels or similar sheet- or disc- shaped objects, also flat oblong moulded articles with lateral openings, e.g. panels with openings for doors or windows, grated girders}
7/20	 Moulds for making shaped articles with undercut recesses, e.g. dovetails
7/22	 Moulds for making units for prefabricated buildings {, i.e. units each comprising an important section of at least two limiting planes of a room or space, e.g. cells (for making rooms or entire buildings in situ <u>E04G 11/02</u>); Moulds for making prefabricated stair units
7/225	• • {for making stairs or stair units comprising more than one step (in situ E04G 13/06)}
7/24	 Unitary mould structures with a plurality of moulding spaces {, e.g. moulds divided into multiple moulding spaces by integratable partitions, mould part structures providing a number of moulding spaces in mutual co-operation (assemblies of individually complete moulds <u>B28B 7/26</u>)}
7/241	 {Detachable assemblies of mould parts providing only in mutual co-operation a number of complete moulding spaces}
7/243	• • { for making plates, panels or similar sheet- or disc-shaped objects }
7/245	• • • { using transportable mould batteries }
7/246	 {for making oblong objects, e.g. girders}
7/248	 . {using angle-shaped mould parts, e.g. L-parts}
7/26	 Assemblies of separate moulds {, i.e. of moulds
1/20	or moulding space units, each forming a complete mould or moulding space unit independently from each other}
7/263	• • {for making plates, panels or similar sheet- or disc-shaped objects}
7/266	• • {for making oblong objects, e.g. girders}
7/28	• Cores; Mandrels {(<u>B28B 1/44</u> takes precedence; of special materials in general <u>B28B 7/34</u> ; cores for making blind holes <u>in situ E04G 15/04</u> ; for making recesses <u>E04G 15/06</u>)}

• • {for making double wall panels}

7/085

7/285	• • {Core puller}
7/30	• adjustable, collapsible, or expanding {(for making tubular objects <u>B28B 21/88</u>)}
7/303	 {specially for making undercut recesses or continuous cavities the inner section of which is superior to the section of either of the mouths}
7/306 7/32	 . {pliable or extensible} . inflatable {(connection of valves to inflatable elastic bodies <u>B60C 29/00)</u>}
7/34	• Moulds, cores, or mandrels of special material, e.g. destructible materials (for slip casting <u>B28B 1/26</u>)
7/342	• • {which are at least partially destroyed, e.g. broken, molten, before demoulding; Moulding surfaces or spaces shaped by, or in, the ground, or sand or soil, whether bound or not; Cores consisting at least mainly of sand or soil, whether bound or not}
7/344	• • {from absorbent or liquid- or gas-permeable materials, e.g. plaster moulds in general}
7/346	• • {Manufacture of moulds}
7/348	• • {of plastic material or rubber}
7/36	• Linings or coatings, {e.g. removable, absorbent
	linings, permanent anti-stick coatings; Linings becoming a non-permanent layer of the moulded article}(lubricating surfaces of moulds, cores or mandrels <u>B28B 7/38</u>)
7/362	 {specially for making moulded articles from concrete with exposed aggregate}
7/364	• • {of plastic material or rubber}
7/366	• • {Replaceable lining plates for press mould}
7/368	• • {Absorbent linings}
7/38	• Treating surfaces of moulds, cores, or mandrels to prevent sticking
7/382	• {Devices for treating, e.g. sanding}
7/384	 {Treating agents (for plastic moulding materials in general <u>B29C 33/60</u>; lubricants in general <u>C10M</u>)}
7/386	• • {Cleaning}
7/388	• • {with liquid material, e.g. lubricating}
7/40	 characterised by means for modifying the properties of the moulding material
7/42	 for heating or cooling, e.g. steam jackets {, by means of treating agents acting directly on the moulding material}
7/44	 for treating with gases or degassing, e.g. for de-aerating {(treating with hot gases or vapour <u>B28B 7/42</u>)}
7/46	• • for humidifying or dehumidifying
7/465	• • • {Applying setting liquid to dry mixtures}
11/00	Apparatus or processes for treating or working the shaped {or preshaped} articles (specially adapted for tubular articles <u>B28B 21/92</u> ; decoration or surface treatment in general <u>B05</u> , <u>B44</u> ; compacting concrete <u>in situ</u> in connection with building <u>E04G 21/06</u> ; dering <u>F2C</u>)
11/001	 drying F26) {Applying decorations on shaped articles, e.g. by painting}
11/002	 {Apparatus for washing concrete for decorative purposes or similar surface treatments for exposing the texture}
11/003	 {the shaping of preshaped articles, e.g. by bending (<u>B28B 11/08</u> takes precedence)}

11/005	
	• • {Using heat to allow reshaping, e.g. to soften
	ceramic articles}
11/006	• • {Making hollow articles or partly closed articles}
11/007	• • • {Using a mask for plugging}
11/008	• • {Blow moulding, e.g. with or without the use of a
11/02	membrane}
11/02	• for attaching appendages, e.g. handles, spouts
11/04	• for coating {or applying engobing layers}(glazing,
11/0/11	 engobing <u>C04B</u>) for moulded articles undergoing a thermal
11/041	treatment at high temperatures, such as burning,
	after coating}
11/042	• • {with insulating material}
11/043	 . {filling cavities or chambers of hollow blocks}
11/044	 {with glaze or engobe or enamel or varnish}
11/045	 (while game of engove of enamer of variabil) (by dipping)
11/046	• {by rolling}
11/047	• {by pooring, e.g. curtain coating}
11/048	 {by spraying or projecting}
11/049	• {Recycling of the coating material}
11/06	• • with powdered or granular material {, e.g.
	sanding of shaped articles}
11/08	• for reshaping the surface, e.g. smoothing,
	roughening, corrugating, making screw-threads
11/0809	• • {Hand tools therefore}
11/0818	• • {for roughening, profiling, corrugating}
11/0827	• • • {for corrugating, profiling or the like of plates
	such as asbestos cement sheets}
11/0836	• • { for pottery articles }
11/0845	• • {for smoothing}
11/0854	• • {for making screw-threads or the like in the
	surface of the shaped article}
11/0863	• • {for profiling, e.g. making grooves}
11/0872	• • {Non-mechanical reshaping of the surface, e.g. by
11/0001	burning, acids, radiation energy, air flow, etc.}
11/0881	• • {Using vibrating mechanisms, e.g. vibrating plates for ageing stones}
11/089	 . {Using impacting tools}
11/089	• • • • • • • • • • • • • • • • •
11/10	 by using presses for removing parts of the articles by cutting
11/12	• for removing parts of the articles by cutting
	Cutting-off protruding ridges also profiled
11/125	• • {Cutting-off protruding ridges, also profiled
	cutting}
11/14	cutting}for dividing shaped articles by cutting
	cutting}for dividing shaped articles by cutting{for dividing block-shaped bodies of expanded
11/14	cutting}for dividing shaped articles by cutting
11/14 11/145	 cutting } for dividing shaped articles by cutting (for dividing block-shaped bodies of expanded materials, e.g. cellular concrete)
11/14 11/145	 cutting { for dividing shaped articles by cutting {for dividing block-shaped bodies of expanded materials, e.g. cellular concrete } for extrusion {or for materials supplied in long
11/14 11/145 11/16	 cutting} for dividing shaped articles by cutting {for dividing block-shaped bodies of expanded materials, e.g. cellular concrete} for extrusion {or for materials supplied in long webs}
11/14 11/145 11/16 11/161	 cutting} for dividing shaped articles by cutting {for dividing block-shaped bodies of expanded materials, e.g. cellular concrete} for extrusion {or for materials supplied in long webs} {in vertically operating extrusion presses} {in which the cutting device is moved longitudinally with the moving strand}
11/14 11/145 11/16 11/161	 cutting} for dividing shaped articles by cutting {for dividing block-shaped bodies of expanded materials, e.g. cellular concrete} for extrusion {or for materials supplied in long webs} {in vertically operating extrusion presses} {in which the cutting device is moved longitudinally with the moving strand} . {mounted on a carrier}
11/14 11/145 11/16 11/161 11/163	 cutting} for dividing shaped articles by cutting {for dividing block-shaped bodies of expanded materials, e.g. cellular concrete} for extrusion {or for materials supplied in long webs} {in vertically operating extrusion presses} {in which the cutting device is moved longitudinally with the moving strand} {mounted on a carrier} {with devices for determining the correct
11/14 11/145 11/16 11/161 11/163 11/165	 cutting} for dividing shaped articles by cutting {for dividing block-shaped bodies of expanded materials, e.g. cellular concrete} for extrusion {or for materials supplied in long webs} {in vertically operating extrusion presses} {in which the cutting device is moved longitudinally with the moving strand} {mounted on a carrier} {with devices for determining the correct cutting moment, e.g. measuring rollers or the
11/14 11/145 11/16 11/161 11/163 11/165 11/166	 cutting} for dividing shaped articles by cutting {for dividing block-shaped bodies of expanded materials, e.g. cellular concrete} for extrusion {or for materials supplied in long webs} {in vertically operating extrusion presses} {in which the cutting device is moved longitudinally with the moving strand} {mounted on a carrier} {with devices for determining the correct cutting moment, e.g. measuring rollers or the like}
11/14 11/145 11/16 11/161 11/163 11/165	 cutting} for dividing shaped articles by cutting {for dividing block-shaped bodies of expanded materials, e.g. cellular concrete} for extrusion {or for materials supplied in long webs} {in vertically operating extrusion presses} {in which the cutting device is moved longitudinally with the moving strand} {mounted on a carrier} {with devices for determining the correct cutting moment, e.g. measuring rollers or the like} {in which the material is cut-out from a strand
11/14 11/145 11/16 11/161 11/163 11/165 11/166 11/168	 cutting} for dividing shaped articles by cutting {for dividing block-shaped bodies of expanded materials, e.g. cellular concrete} for extrusion {or for materials supplied in long webs} {in vertically operating extrusion presses} {in vertically operating extrusion presses} {in which the cutting device is moved longitudinally with the moving strand} {with devices for determining the correct cutting moment, e.g. measuring rollers or the like} {in which the material is cut-out from a strand or web by means of a frame-shaped knife}
11/14 11/145 11/16 11/161 11/163 11/165 11/166	 cutting} for dividing shaped articles by cutting {for dividing block-shaped bodies of expanded materials, e.g. cellular concrete} for extrusion {or for materials supplied in long webs} {in vertically operating extrusion presses} {in which the cutting device is moved longitudinally with the moving strand} {mounted on a carrier} {with devices for determining the correct cutting moment, e.g. measuring rollers or the like} {in which the material is cut-out from a strand or web by means of a frame-shaped knife} for removing burr {(combined with the mould
11/14 11/145 11/16 11/161 11/163 11/165 11/166 11/168 11/18	 cutting} for dividing shaped articles by cutting {for dividing block-shaped bodies of expanded materials, e.g. cellular concrete} for extrusion {or for materials supplied in long webs} {in vertically operating extrusion presses} {in vertically operating extrusion presses} {in which the cutting device is moved longitudinally with the moving strand} {mounted on a carrier} {with devices for determining the correct cutting moment, e.g. measuring rollers or the like} {in which the material is cut-out from a strand or web by means of a frame-shaped knife} for removing burr {(combined with the mould B28B 7/0058)}
11/14 11/145 11/16 11/161 11/163 11/165 11/166 11/168 11/18 11/18	 cutting} for dividing shaped articles by cutting {for dividing block-shaped bodies of expanded materials, e.g. cellular concrete} for extrusion {or for materials supplied in long webs} {in vertically operating extrusion presses} {in which the cutting device is moved longitudinally with the moving strand} {mounted on a carrier} {with devices for determining the correct cutting moment, e.g. measuring rollers or the like} {in which the material is cut-out from a strand or web by means of a frame-shaped knife} for removing burr {(combined with the mould B28B 7/0058)} for cleaning
11/14 11/145 11/16 11/161 11/163 11/165 11/166 11/168 11/18	 cutting} for dividing shaped articles by cutting {for dividing block-shaped bodies of expanded materials, e.g. cellular concrete} for extrusion {or for materials supplied in long webs} {in vertically operating extrusion presses} {in vertically operating extrusion presses} {in which the cutting device is moved longitudinally with the moving strand} {mounted on a carrier} {with devices for determining the correct cutting moment, e.g. measuring rollers or the like} {in which the material is cut-out from a strand or web by means of a frame-shaped knife} for removing burr {(combined with the mould B28B 7/0058)} for cleaning for curing, setting or hardening (processes for
11/14 11/145 11/16 11/161 11/163 11/165 11/166 11/168 11/18 11/18	 cutting} for dividing shaped articles by cutting {for dividing block-shaped bodies of expanded materials, e.g. cellular concrete} for extrusion {or for materials supplied in long webs} {in vertically operating extrusion presses} {in vertically operating extrusion presses} {in which the cutting device is moved longitudinally with the moving strand} {mounted on a carrier} {with devices for determining the correct cutting moment, e.g. measuring rollers or the like} {in which the material is cut-out from a strand or web by means of a frame-shaped knife} for removing burr {(combined with the mould B28B 7/0058)} for cleaning for curing, setting or hardening (processes for influencing or modifying the setting or hardening
11/14 11/145 11/16 11/161 11/163 11/165 11/166 11/168 11/18 11/18	 cutting} for dividing shaped articles by cutting {for dividing block-shaped bodies of expanded materials, e.g. cellular concrete} for extrusion {or for materials supplied in long webs} {in vertically operating extrusion presses} {in vertically operating extrusion presses} {in which the cutting device is moved longitudinally with the moving strand} {mounted on a carrier} {with devices for determining the correct cutting moment, e.g. measuring rollers or the like} {in which the material is cut-out from a strand or web by means of a frame-shaped knife} for removing burr {(combined with the mould B28B 7/0058)} for cleaning for curing, setting or hardening (processes for

11/241	• {using microwave heating means}
11/242	• • {by passing an electric current through wires, rods or reinforcing members incorporated in the
	article}
11/243	• • {Setting, e.g. drying, dehydrating or firing
11/245	 ceramic articles (<u>B28B 11/242</u> takes precedence)} . {Curing concrete articles (<u>B28B 11/242</u> takes
	precedence)}
11/246	• • • {Underwater curing}
11/247	• • {Controlling the humidity during curing, setting or hardening}
11/248	• • {Supports for drying}
13/00	Feeding the unshaped material to moulds
	or apparatus for producing shaped articles;
	Discharging shaped articles from such moulds or
12/02	apparatus
13/02	 Feeding the unshaped material to moulds or apparatus for producing shaped articles
13/0205	• • {supplied to the moulding device in form of
	a coherent mass of material, e.g. a lump or an
	already partially preshaped tablet, pastil or the like}
13/021	• • {by fluid pressure acting directly on the material,
	e.g. using vacuum, air pressure}
13/0215	• • {Feeding the moulding material in measured quantities from a container or silo}
13/022	• • {Feeding several successive layers, optionally
	of different materials}
13/0225	• • {Feeding specific quantities of material at specific locations in the mould}
13/023	• • • {by using a feed box transferring the moulding
	material from a hopper to the moulding cavities}
13/0235	• • • • {the feed box being provided with agitating
10, 0200	means, e.g. stirring vanes to avoid premature
	setting of the moulding material (agitation in
2012/024	general <u>B01F</u>)}
2013/024	• • • {the feed box being provided with means for transporting the moulded products, e.g. out
	of the machine }
13/0245	{Rotatable feed frames, e.g. horizontally
13/025	rotated over 90 degrees} {the feed box being vibrated, e.g. to promote
15/025	discharging of the material}
13/0255	• • • {Disposal of residual material, e.g. by means of the return stroke of the feed drawer}
13/026	• • • {by using a movable hopper transferring the
2012/02/05	moulding material to the moulding cavities}
2013/0265	• • • {Feeding a slurry or a ceramic slip}
13/027	• • • {by using a removable belt or conveyor transferring the moulding material to the
	moulding cavities}
13/0275	• • • {Feeding a slurry or a ceramic slip}
13/028	• • {Deflecting the flow of the unshaped material}
13/0285	• • {the material being prearranged on a sheet, e.g. using a decal}
13/029	• {through a sieve or grid, e.g. to ensure evenly filling of cavities}
13/0295	 . {Treating the surface of the fed layer, e.g.
	removing material or equalization of the surface}
13/04	• Discharging the shaped articles ({discharging
	tubular articles after shaping <u>B28B 21/90;</u> }
	conveying systems for ceramic mouldings B65G 49/08)

13/06	• Removing the shaped articles from moulds (by means incorporated in, or carried by, the moulds B28B 7/10)
13/062	• • {by elastically deforming the mould, e.g. bending flexible moulds}
13/065	• • • {by applying electric current or other means of discharging, e.g. pneumatic or hydraulic discharging means}
13/067	• • • {by applying blows or vibrations followed by, or during, the removal of a mould part}
15/00	General arrangement or layout of plant {; Industrial outlines or plant installations}
15/002	• {Mobile plants, e.g. on vehicles or on boats}
15/005	• {Machines using pallets co-operating with a
	bottomless mould; Feeding or discharging means
	for pallets (feeding pallets for making a continuous
15/007	moulding surface <u>B28B 5/025</u> , <u>B28B 5/028</u>)}
15/007	 {Plant with two or more identical shaping or moulding devices}
17/00	Details of, or accessories for, apparatus for
	shaping the material; Auxiliary measures taken in
	connection with such shaping (moulds <u>B28B 7/00;</u>
	after-treatment <u>B28B 11/00</u> ; feeding or discharging
	<u>B28B 13/00</u> ; arrangements for embedding elements in
	the material <u>B28B 23/00</u>)
17/0009	• {Shaping of preshaped articles (shaping the surface of articles <u>B28B 11/08</u>)}
17/0018	• {Separating articles from each other}
17/0027	• {Accessories for obtaining rubblestones}
17/0036	• {Cutting means, e.g. water jets}
17/0045	• {Tensioning devices for cutting means}
17/0054	• {Cleaning devices for cutting means}
17/0063	• {Control arrangements}
17/0072	• • {Product control or inspection}
17/0081	• {Process control}
17/009	• {Changing the forming elements, e.g. exchanging moulds, dies}
17/02	• Conditioning the material prior to shaping {(for
17/023	 mixtures containing clay or cement <u>B28C</u>)} {Conditioning gypsum}
17/025	{Conditioning gypsun} {Conditioning ceramic materials}
17/020	 Exhausting or laying dust
19/00	Machines or methods for applying the material
	to surfaces to form a permanent layer thereon (making shaped articles on mandrels <u>B28B 1/30</u> ;
	applying liquids or other fluent materials to surfaces
	in general <u>B05C;</u> glazing or engobing <u>C04B</u>)
19/0007	• {for producing articles with exposed aggregate}
19/0015	• {on multilayered articles}
19/0023	• {Lining the inner wall of hollow objects, e.g. pipes}
19/003	• {to insulating material}
19/0038	• {lining the outer wall of hollow objects, e.g. pipes}
19/0046	• {to plastics}
19/0053	• {to tiles, bricks or the like}
19/0061	• {Means for arranging or fixing the tiles, bricks or the like in the mould}
19/0069	• • {the tiles, bricks or the like being sunk in
	resilient mould material}
19/0076	• • • {the tiles, bricks or the like being sunk in heated mould material, e.g. thermoplastic

material to temporarily fix them}

19/0084	• • {using pressurized elements for fixing the tiles, bricks or the like}	
19/0092	• {to webs, sheets or the like, e.g. of paper,	
	cardboard}	
<u>Methods, apparatus, or machines, specially adapted for the</u> production of tubular or reinforced articles		
21/00	Methods or machines specially adapted for the production of tubular articles	
21/02	• by casting into moulds	
21/04	• • by simple casting, the material being neither	
	positively compacted nor forcibly fed	
21/06	• into moulds having sliding parts (<u>B28B 21/26</u> takes precedence; forms, shutterings, or falsework for making rooms as a whole, whole stories, or	
	whole buildings in situ E04G $11/02$)	
21/08	• • by slip-casting; Moulds therefor	
21/10	• using compacting means	
21/12	• • tamping or ramming the material or the mould	
	elements	
21/14	• • • vibrating, e.g. the surface of the material	
21/16	one or more mould elements	
21/18	using expansible or retractable mould or core	
	elements	
21/20	using inflatable cores, e.g. having a frame inside the inflatable part of the core	
	(connection of valves to inflatable elastic bodies <u>B60C 29/00</u>)	
21/205	• • • • • {having a rigid frame inside the inflatable	
21/205	part of the core}	
21/22	• • • using rotatable mould or core parts	
21/24	• • • • using compacting heads, rollers, or the like	
21/242	{the working diameter of the compacting mechanism being adjustable, e.g. the compacting rollers on the head being displaceable}	
21/245	•••• {using a horizontal compacting roller in a horizontally rotatable mould}	
21/247	{the rollers of the compaction head being driven, e.g. to overcome or modify the tangential force}	
21/26	• • • • with a packer head serving as a sliding mould or provided with guiding means for feeding the material	
21/28	combined with vibration means	
21/30	Centrifugal moulding	
21/305	• • • • {Moulding machines with vertical rotation axis}	
21/32	Feeding the material into the moulds	
21/34	combined with vibrating or other	
21/26	additional compacting means	
21/36	• • • applying fluid pressure or vacuum to the material (combined with slip-casting B28B 21/08)	
21/38	<pre> introducing the material wholly or partly under pressure {; Injection-moulding machines}</pre>	
21/40	 by evacuating one or more of the mould parts {; Vacuum machines} 	
21/42	• by shaping on or against mandrels or like moulding surfaces	
21/44	• • by projecting, e.g. spraying	
21/46	• • by dipping	
21/48	• • by wrapping, e.g. winding	

21/50	Details of compression or compacting means
21/52	• by extruding
21/54	Mouthpieces for shaping sockets, bends, or like
	peculiarly-shaped tubular articles
21/56	 incorporating reinforcements {or inserts}
21/563	• • {Gaskets}
21/566	• • {Climbing elements}
21/58	Steel tubes
21/60	prestressed reinforcements
21/62	circumferential {laterally tensioned}
21/64	Winding arrangements
21/66	Reinforcing mats
21/68	and applying centrifugal forces
21/70	• by building-up from preformed elements
21/72	• • Producing multilayer tubes
21/74	• Producing pipe bends, sockets, sleeves; Moulds
	therefor (combined with extrusion presses $\underline{B28B\ 21/54}$)
21/76	• Moulds {(for slip-casting <u>B28B 21/08</u>)}
21/765	• • {Top or bottom rings}
21/78	• • with heating or cooling means, e.g. steam jackets
21/80	adapted to centrifugal or rotational moulding
21/82	built-up from several parts; Multiple moulds; Moulds with adjustable parts
21/84	Moulds with one or more pivotable parts
21/86	• Cores (in general <u>B28B 7/00</u>)
21/88	• • adjustable, collapsible or expansible (using
	inflatable cores <u>B28B 21/20</u> {; for compacting <u>B28B 21/18</u> })
21/90	• Methods or apparatus for {demoulding or}
	discharging after shaping
21/905	• • {Removing from a mandrel}
21/92	. Methods or apparatus for treating or reshaping
21/925	• • {for wrapping}
21/94	• of rimpregnating or coating by applying liquids or semi-liquids
21/96	• • for smoothing, roughening, corrugating or for removing burr
21/965	• • • {for grooving or corrugating}
21/98	• for reshaping, e.g. by means of reshape moulds
23/00	Arrangements specially adapted for the
	production of shaped articles with elements wholly
	or partly embedded in the moulding material; {Production of reinforced objects}(<u>B28B 21/00</u>
	takes precedence; in units for prefabricated buildings
22/0005	<u>B28B 7/22</u>) (the reinforcement consisting of aligned non-metal
23/0006	• {the reinforcement consisting of aligned, non-metal reinforcing elements}
23/0012	• {Producing brick netting}
23/0012	 {Producing metal-clad stones, such as oven stones}
23/0010	 {with installation or service material, e.g. tubes for
25/0025	electricity or water}
23/0031	• {with product identification means, e.g. labels
	on test products or integrated circuit tags inside
	products RFID}
23/0037	• {with elements being able to conduct light, e.g. light
	conducting fibers}
23/0043	• {with gaskets or sealing elements, e.g. for
	tunnelings or man holes (<u>B28B 21/563</u> takes
22/005	precedence)}{ with anchoring or fastening elements for the
23/005	i wate appropring or testaning elements for the

ethods, appa	aratus, or machines, specially adapted for the production of tubular or re-
23/0056	 {Means for inserting the elements into the mould or supporting them in the mould (<u>B28B 23/022</u> takes precedence)}
23/0062	 {forcing the elements into the cast material, e.g. hooks into cast concrete}
23/0068	• {Embedding lost cores}
23/0075	• {for decorative purposes}
23/0081	• {Embedding aggregates to obtain particular properties}
23/0087	• {Lightweight aggregates for making lightweight articles}
23/0093	 {Heavy aggregates or scrap material for making heavy articles}
23/02	 wherein the elements are reinforcing members {(<u>B28B 23/0006</u> takes precedence)}
23/022	• • {Means for inserting reinforcing members into the mould or for supporting them in the mould (inserting during extrusion <u>B28B 3/2645</u>)}
23/024	• • • {Supporting means}
23/026	• • • {Mould partitionning elements acting as supporting means in moulds, e.g. for elongated articles}
23/028	{for double - wall articles}
23/04	• • the elements being stressed
23/043	• • • {Wire anchoring or tensioning means for the reinforcements}
23/046	• • • {Post treatment to obtain pre-stressed articles}
23/06	for the production of elongated articles
23/10	• • • the shaping being effected by centrifugal or rotational moulding
23/12	• • • to form prestressed circumferential reinforcements
23/14	• • • by wrapping, e.g. winding, apparatus
23/16	Prestressed reinforcing nets

23/16 23/18. . for the production of elongated articles (B28B 23/06 takes precedence) 23/20• • the shaping being effected by centrifugal

or rotational moulding (B28B 23/10 takes precedence) 23/22. . assembled from preformed parts

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