## CPC COOPERATIVE PATENT CLASSIFICATION

## E FIXED CONSTRUCTIONS

## **BUILDING**

## E02 HYDRAULIC ENGINEERING; FOUNDATIONS; SOIL SHIFTING

# **E02D FOUNDATIONS; EXCAVATIONS; EMBANKMENTS** (specially adapted for hydraulic engineering <u>E02B</u>); **UNDERGROUND OR UNDERWATER STRUCTURES** {(tunnels, tunnelling, mining <u>E21</u>)}

## NOTES

- 1. This subclass covers underground structures made by foundation engineering, i.e. involving disturbance of the ground surface.
- 2. This subclass <u>does not cover</u> underground spaces, made by underground mining methods only, i.e. not involving disturbance of the ground surface, which are covered by subclass <u>E21D</u>.

#### **WARNINGS**

- The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
   E02D 29/09 covered by E02D 29/06
- 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	Investigation of foundation soil in situ (investigation involving boring or specially adapted to earth drilling E21B 25/00, E21B 49/00; investigating or analysing materials by determining their chemical or physical properties, in general G01N, e.g. sampling G01N 1/00)	3/0265 3/032 3/039 3/046	<ul> <li>. • {Wheels specially adapted therefor; Cleats for said wheels}</li> <li>. • Trench rollers</li> <li>. • Slope rollers</li> <li>. • by tamping or vibrating, e.g. with auxiliary</li> </ul>
1/02	before construction work		watering of the soil (E02D 3/026, E02D 3/08 take precedence; generating or transmitting
1/022	<ul> <li>• {by investigating mechanical properties of the soil (<u>E02D 1/027</u> takes precedence)}</li> </ul>		mechanical vibrations for performing mechanical work in general <u>B06B</u> ; tamping or vibrating
1/025	• • • {combined with sampling}		apparatus for working ballast or railways
1/027	<ul> <li>• {by investigating properties relating to fluids in the soil, e.g. pore-water pressure, permeability (sampling of groundwater <u>E02D 1/06</u>)}</li> </ul>		E01B 27/00, for consolidating paving materials E01C 19/30, for consolidating concrete in general E04G 21/06)
1/04	• • Sampling of soil {( <u>E02D 1/025</u> takes precedence)}	3/054	• • • involving penetration of the soil, e.g. vibroflotation
1/06	Sampling of ground water	3/061	Tampers with directly acting explosion
1/08	<ul> <li>after finishing the foundation structure {(testing of piles E02D 33/00)}</li> </ul>		chambers (pile drivers with explosion chambers E02D 7/12)
3/00	Improving or preserving soil or rock, e.g. preserving permafrost soil (securing of slopes	3/068	• • • Vibrating apparatus operating with systems involving reciprocating masses (E02D 3/054, E02D 3/061 take precedence)
	or inclines <u>E02D 17/20</u> ; damming or interrupting passage of underground water <u>E02D 19/12</u> ; improving soil for agricultural purposes <u>A01</u> ; soil stabilisation	3/074	• • • Vibrating apparatus operating with systems involving rotary unbalanced masses  (E02D 3/054 takes precedence)
	for road building or like purposes <u>E01C 21/00</u> , <u>E01C 23/10</u> ; setting rock anchoring bolts <u>E21D</u> )	3/08	by inserting stones or lost bodies, e.g. compaction piles (sand drains for soil compaction E02D 3/10;
3/005	• {Soil-conditioning by mixing with fibrous materials, filaments, open mesh or the like}		stressing soil while forming foundations E02D 27/28)
3/02	• Improving by compacting ( <u>E02D 3/11</u> takes precedence; compacting soil locally before or while forming foundations <u>E02D 27/26</u> , <u>E02D 27/28</u> )	3/10	• • by watering, draining, de-aerating or blasting, e.g. by installing sand or wick drains (E02D 3/11 takes precedence; soil-penetrating vibrators with
3/026	<ul> <li>by rolling with rollers usable only for or specially adapted for soil compaction, e.g. sheepsfoot</li> </ul>		auxiliary watering <u>E02D 3/054</u> ; drainage of soil in general <u>E02B 11/00</u> )
	rollers (rollers for soil working in agriculture A01B 29/00; rollers for road paving, such rollers usable also for compacting soil E01C 19/23)	3/103 3/106	<ul> <li>• • {by installing wick drains or sand bags}</li> <li>• • {by forming sand drains containing only loose aggregates (sand piles <u>E02D 3/08</u>)}</li> </ul>
			"55105 (build piles <u>1021) 5/00</u> ))

3/11	. by thermal, electrical or electro-chemical	5/24 Prefabricated piles	
	means (freezing soil for interrupting passage of underground water <u>E02D 19/14</u> )	NOTE	
3/115	• by freezing	Documents covered both by	
3/12	<ul> <li>Consolidating by placing solidifying or pore-filling substances in the soil (making piles <u>E02D 5/46</u>; soil-conditioning or soil-stabilising materials <u>C09K 17/00</u>; consolidation of ground around boreholes or wells <u>E21B 43/025</u>)</li> </ul>	E02D 5/26 - E02D 5/32 and by one or seve of the groups E02D 5/48 - E02D 5/64 are classified in all relevant groups unless spec priority rules to the contrary are given	cific
3/123	{and compacting the soil (E02D 3/126 takes precedence)}	5/26 made of timber with or without reinforceme  Means affording protection against spoiling of the wood (cases <u>E02D 5/60</u> ; impregnating	ŗ
3/126	{and mixing by rotating blades}	agents <u>B27K 3/16</u> ); Self-cleaning of piles placed in water	8
5/00	Bulkheads, piles, or other structural elements specially adapted to foundation engineering (engineering elements in general F16)	5/28 made of steel {or other metals ( <u>E02D 5/52</u> takes precedence)}	
5/02	<ul> <li>Sheet piles or sheet pile bulkheads {(foundations made with sheet pile bulkheads <u>E02D 27/30</u>; cofferdams <u>E02D 19/04</u>)}</li> </ul>	5/285 • • • { tubular, e.g. prefabricated from sheet pile elements (sheet pile boxes <u>E02D 27/30</u> ; concrete piles with metal casings <u>E02D 5/30</u> )}	.e
5/03 5/04	<ul><li>Prefabricated parts {, e.g. composite sheet piles}</li><li>made of steel</li></ul>	5/30 made of concrete or reinforced concrete or	
5/06	Fitted piles or other elements specially adapted for closing gaps between two sheet piles or between two walls of sheet piles	made of steel and concrete {( <u>E02D 5/50</u> ) takes precedence; assembled from segments <u>E02D 5/523</u> ; prestressed concrete <u>E02D 5/5</u>	
5/08	Locking forms; Edge joints; Pile crossings; Branch pieces	5/32 with arrangements for setting {or assisting is setting} in position by fluid jets {(placing pi	
5/10	<ul> <li>made of concrete or reinforced concrete {(moulds therefor <u>E02D 5/70)</u>}</li> </ul>	by using fluid jets in general <u>E02D 7/24</u> )} 5/34 Concrete or concrete-like piles cast in position	1
5/105	• • • • {of prestressed concrete ( <u>E02D 5/12</u> takes precedence)}	{; Apparatus for making same ( <u>E02D 5/50</u> takes precedence; moulds <u>E02D 5/665</u> ; placing removing moulds <u>E02D 7/00</u> - <u>E02D 11/00</u> ;	g,
5/12	Locking forms; Edge joints; Pile crossings; Branch pieces	placing the concrete <u>E02D 15/04</u> )} 5/36 ••• making without use of mouldpipes or other	
5/14	• • Sealing joints between adjacent {sheet} piles (sealing joints not restricted to foundation piles	moulds  5/38 making without use of mould-pipes or other mou	
	<u>E04B 1/68</u> )	5/385 { with removal of the outer mould-pipes	iids
5/16	<ul> <li>Auxiliary devices rigidly or detachably arranged on sheet piles for facilitating assembly {(as parts of driving or pulling apparatus <u>E02D 7/00</u>, <u>E02D 13/00</u>)}</li> </ul>	(documents also covered by one or severa of the groups <u>E02D 5/40</u> - <u>E02D 5/44</u> are classified in all the relevant groups)}	
5/18	Bulkheads or similar walls made solely of concrete	5/40 in open water	
	<u>in situ</u> {(moulds therefor <u>E02D 5/68</u> ; making foundation slots <u>E02D 17/13</u> ; sealing diaphragms	5/42 by making use of pressure liquid or pressure gas for compacting the concrete	
5/182	<ul> <li>other than those made of concrete <u>E02D 19/18</u>)}</li> <li>• {using formworks to separate sections}</li> </ul>	5/44 with enlarged footing or enlargements at t bottom of the pile	the
5/185	• • {with flexible joint members between sections	5/445 {by application of pyrotechniques}	.4
	(joints in foundation structures <u>E02D 29/16</u> ; flexible joints in hydraulic engineering <u>E02B 3/16</u> , in building <u>E04B 1/68</u> )}	<ul> <li>5/46 making in situ by forcing bonding agents integravel fillings or the soil (consolidating soil general E02D 3/12)</li> </ul>	l in
5/187	<ul> <li>{the bulkheads or walls being made continuously, e.g. excavating and constructing bulkheads or walls in the same process, without joints}</li> </ul>	5/48 • Piles varying in construction along their length i.e. along the body between head and shoe, e.g made of different materials along their length (E02D 5/50, E02D 5/52 take precedence)}	g.
5/20	<ul> <li>Bulkheads or similar walls made of prefabricated parts and concrete, including reinforced concrete, in <u>situ</u></li> </ul>	5/50 • Piles comprising both precast concrete portion and concrete portions cast <u>in situ</u> {( <u>E02D 5/52</u>	
5/22	• Piles (sheet piles, {i.e. elements shaped to mutually lock or mate} E02D 5/02; {pile shoes E02D 5/72; foundations on piles E02D 27/12, E02D 27/20})	<ul> <li>takes precedence)}</li> <li>5/52 • Piles composed of separable parts, e.g. telesco tubes {; Piles composed of segments}</li> </ul>	pic
5/223	{Details of top sections of foundation piles     (E02D 5/54 takes precedence)}	5/523 {composed of segments} 5/526 {Connection means between pile segment	ıts}
5/226	• {Protecting piles (piles with protecting cases	5/54 . Piles with prefabricated supports or anchoring	
5,220	E02D 5/60)}	parts; Anchoring piles {( <u>E02D 5/44</u> takes precedence; ground anchors <u>E02D 5/80</u> ; anchoroundations <u>E02D 27/50</u> )}	
		5/56 • Screw piles {(placing piles by screwing down E02D 7/22)}	

- /	- · · · · · · · · · · · · · · · · · · ·	= 10.0	· · · · · · · · · · · · · · · · · ·
5/58	• Prestressed concrete piles {(segmental piles	7/28	<ul> <li>Placing of hollow pipes or mould pipes by means</li> </ul>
	E02D 5/523)}		arranged inside the piles or pipes $\{(E02D 13/08)\}$
5/60	<ul> <li>Piles with protecting cases</li> </ul>		takes precedence)}
5/62	Compacting the soil at the footing or in {or	7/30	• • by driving cores
	along} a casing by forcing cement or like material		
	through tubes	9/00	Removing sheet piles bulkheads, piles, mould-pipes
5/64	Repairing piles		or other moulds {or parts thereof}(for both placing
			and removing <u>E02D 11/00</u> )
5/66	• Mould-pipes or other moulds {(for plant use	9/005	• {removing the top of placed piles of sheet piles
	<u>B28B</u> )}		(E02D 9/04 takes precedence)}
5/665	• • {for making piles}	9/02	<ul> <li>by withdrawing</li> </ul>
5/68	for making bulkheads or elements thereof		-
5/70	<ul><li>for making sheet piles {not used}</li></ul>	9/04	• by cutting-off under water
5/72	• Pile shoes	11/00	Methods or apparatus {specially adapted} for
5/74	Means for anchoring structural elements or	22,00	both placing and removing sheet pile bulkheads,
3/14			piles, or mould-pipes (features relating to placing
	bulkheads (anchoring piles <u>E02D 5/54</u> {; anchored		only <u>E02D 7/00</u> , to removing only <u>E02D 9/00</u> {;
	foundations E02D 27/50})		
5/76	• • Anchorings for bulkheads or sections thereof {in		placing apparatus which without special provisions,
	as much as specially adapted therefor}		can be operated to remove, e.g. vibrating drivers
5/765	• • {removable}		E02D 7/00})
5/80	• Ground anchors {(for galleries, tunnels or shafts	13/00	Accessories for placing or removing piles or
	E21D 21/00)}	13/00	
5/801	• • • {driven by screwing}	4.000.0	bulkheads {, e.g. noise attenuating chambers}
		13/005	<ul> <li>{Sound absorbing accessories in piling}</li> </ul>
5/803	• • • {with pivotable anchoring members}	13/02	<ul> <li>specially adapted for placing or removing bulkheads</li> </ul>
5/805	• • • { with deformable anchoring members }	13/04	• Guide devices; Guide frames {(as parts of the driver
5/806	• • • {involving use of explosives}		scaffold <u>E02D 7/16</u> )}
5/808	• • • {anchored by using exclusively a bonding	13/06	for observation while placing
	material}	13/08	• Removing obstacles
7/00	Methods or apparatus for placing sheet pile	13/10	• Follow-blocks of pile-drivers or like devices
	bulkheads, piles, mouldpipes, or other moulds (for		<u>NOTE</u>
	both placing and removing E02D 11/00; {accessories		
	for coupling driver to piles or the like <u>E02D 13/10</u> ;		The IPC wording is replaced by the following
	for trees or other plants A01G 17/16; placing posts		wording: Devices adapted to, e.g. interposed on,
			the top of the pile to be driven, e.g. follow-blocks
7/02	<u>E04H 17/26</u> })		the top of the pile to be driven, e.g. follow-blocks or the like caps, rings
7/02	<u>E04H 17/26</u> }) • Placing by driving {( <u>E02D 7/18</u> - <u>E02D 7/24</u> take	15/00	or the like caps, rings
	<ul><li><u>E04H 17/26</u>})</li><li>Placing by driving {(<u>E02D 7/18</u> - <u>E02D 7/24</u> take precedence)}</li></ul>	15/00	or the like caps, rings  Handling building or like materials for hydraulic
7/04	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> </ul>	15/00	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;}
7/04 7/06	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> </ul>	15/00	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses
7/04	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer</li> </ul>		or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)
7/04 7/06	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> </ul>	<b>15/00</b> 15/02	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses
7/04 7/06	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the</li> </ul>		or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)
7/04 7/06 7/08	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> </ul>		or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining)}
7/04 7/06 7/08	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer</li> </ul>		or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water
7/04 7/06 7/08	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence;</li> </ul>	15/02	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}
7/04 7/06 7/08 7/10	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> </ul>		or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, bore-
7/04 7/06 7/08 7/10	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> </ul>	15/02 15/04	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts
7/04 7/06 7/08 7/10 7/12 7/125	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>{Diesel drivers}</li> </ul>	15/02	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the
7/04 7/06 7/08 7/10	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>{Diesel drivers}</li> <li>Components for drivers {inasmuch as not</li> </ul>	15/02 15/04 15/06	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}
7/04 7/06 7/08 7/10 7/12 7/125 7/14	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>Quiesel drivers</li> <li>Components for drivers {inasmuch as not specially for a specific driver construction}</li> </ul>	15/02 15/04	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}  Sinking workpieces into water or soil {inasmuch as
7/04 7/06 7/08 7/10 7/12 7/125	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>{Diesel drivers}</li> <li>Components for drivers {inasmuch as not</li> </ul>	15/02 15/04 15/06	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}
7/04 7/06 7/08 7/10 7/12 7/125 7/14	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>Quiesel drivers</li> <li>Components for drivers {inasmuch as not specially for a specific driver construction}</li> </ul>	15/02 15/04 15/06	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}  Sinking workpieces into water or soil {inasmuch as
7/04 7/06 7/08 7/10 7/12 7/125 7/14	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>{Diesel drivers}</li> <li>Components for drivers {inasmuch as not specially for a specific driver construction}</li> <li>Scaffolds {or supports} for drivers {(guide)</li> </ul>	15/02 15/04 15/06 15/08	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}  Sinking workpieces into water or soil {inasmuch as not provided for elsewhere}
7/04 7/06 7/08 7/10 7/12 7/125 7/14	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>QDiesel drivers</li> <li>Components for drivers {inasmuch as not specially for a specific driver construction}</li> <li>Scaffolds {or supports} for drivers {(guide frames for the elements to be driven per se</li> </ul>	15/02 15/04 15/06 15/08 15/10	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}  Sinking workpieces into water or soil {inasmuch as not provided for elsewhere}  Placing gravel or light material under water {inasmuch as not provided for elsewhere}
7/04 7/06 7/08 7/10 7/12 7/125 7/14 7/16	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>(Diesel drivers)</li> <li>Components for drivers {inasmuch as not specially for a specific driver construction}</li> <li>Scaffolds {or supports} for drivers {(guide frames for the elements to be driven per se E02D 13/04; supports of the artificial island type E02B 17/00)}</li> </ul>	15/02 15/04 15/06 15/08	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}  Sinking workpieces into water or soil {inasmuch as not provided for elsewhere}  Placing gravel or light material under water {inasmuch as not provided for elsewhere}
7/04 7/06 7/08 7/10 7/12 7/125 7/14	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>(Diesel drivers)</li> <li>Components for drivers {inasmuch as not specially for a specific driver construction}</li> <li>Scaffolds {or supports} for drivers {(guide frames for the elements to be driven per se E02D 13/04; supports of the artificial island type E02B 17/00)}</li> <li>(of variable length, e.g. foldable or</li> </ul>	15/02 15/04 15/06 15/08 15/10	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}  Sinking workpieces into water or soil {inasmuch as not provided for elsewhere}  Placing gravel or light material under water {inasmuch as not provided for elsewhere}
7/04 7/06 7/08 7/10 7/12 7/125 7/14 7/16	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>{Diesel drivers}</li> <li>Components for drivers {inasmuch as not specially for a specific driver construction}</li> <li>Scaffolds {or supports} for drivers {(guide frames for the elements to be driven per se E02D 13/04; supports of the artificial island type E02B 17/00)}</li> <li>(of variable length, e.g. foldable or telescopic}</li> </ul>	15/02 15/04 15/06 15/08 15/10	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}  Sinking workpieces into water or soil {inasmuch as not provided for elsewhere}  Placing gravel or light material under water {inasmuch as not provided for elsewhere}  Excavations; Bordering of excavations; Making
7/04 7/06 7/08 7/10 7/12 7/125 7/14 7/16	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>{Diesel drivers}</li> <li>Components for drivers {inasmuch as not specially for a specific driver construction}</li> <li>Scaffolds {or supports} for drivers {(guide frames for the elements to be driven per se E02D 13/04; supports of the artificial island type E02B 17/00)}</li> <li>(vibrators for soil compacting</li> </ul>	15/02 15/04 15/06 15/08 15/10	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}  Sinking workpieces into water or soil {inasmuch as not provided for elsewhere}  Placing gravel or light material under water {inasmuch as not provided for elsewhere}  Excavations; Bordering of excavations; Making embankments (soil-shifting apparatus E02F; earth drilling E21)
7/04 7/06 7/08 7/10 7/12 7/125 7/14 7/16	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>{Diesel drivers}</li> <li>Components for drivers {inasmuch as not specially for a specific driver construction}</li> <li>Scaffolds {or supports} for drivers {(guide frames for the elements to be driven per se E02D 13/04; supports of the artificial island type E02B 17/00)}</li> <li>{of variable length, e.g. foldable or telescopic}</li> <li>Placing by vibrating {(vibrators for soil compacting E02D 3/046)}</li> </ul>	15/02 15/04 15/06 15/08 15/10 <b>17/00</b>	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}  Sinking workpieces into water or soil {inasmuch as not provided for elsewhere}  Placing gravel or light material under water {inasmuch as not provided for elsewhere}  Excavations; Bordering of excavations; Making embankments (soil-shifting apparatus E02F; earth drilling E21)  Foundation pits
7/04 7/06 7/08 7/10 7/12 7/125 7/14 7/16 7/165 7/18	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>Qbiesel drivers</li> <li>Components for drivers {inasmuch as not specially for a specific driver construction}</li> <li>Scaffolds {or supports} for drivers {(guide frames for the elements to be driven per se E02D 13/04; supports of the artificial island type E02B 17/00)}</li> <li>(of variable length, e.g. foldable or telescopic)</li> <li>Placing by vibrating {(vibrators for soil compacting E02D 3/046)}</li> <li>Placing by pressure or pulling power</li> </ul>	15/02 15/04 15/06 15/08 15/10 <b>17/00</b>	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}  Sinking workpieces into water or soil {inasmuch as not provided for elsewhere}  Placing gravel or light material under water {inasmuch as not provided for elsewhere}  Excavations; Bordering of excavations; Making embankments (soil-shifting apparatus E02F; earth drilling E21)  Foundation pits  Bordering {surfacing} or stiffening the sides of
7/04 7/06 7/08 7/10 7/12 7/125 7/14 7/16	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>Quiesel drivers</li> <li>Components for drivers {inasmuch as not specially for a specific driver construction}</li> <li>Scaffolds {or supports} for drivers {(guide frames for the elements to be driven per se E02D 13/04; supports of the artificial island type E02B 17/00)}</li> <li>(of variable length, e.g. foldable or telescopic}</li> <li>Placing by vibrating {(vibrators for soil compacting E02D 3/046)}</li> <li>Placing by pressure or pulling power</li> <li>Placing by screwing down {(screw piles per se</li> </ul>	15/02 15/04 15/06 15/08 15/10 <b>17/00</b> 17/02 17/04	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}  Sinking workpieces into water or soil {inasmuch as not provided for elsewhere}  Placing gravel or light material under water {inasmuch as not provided for elsewhere}  Excavations; Bordering of excavations; Making embankments (soil-shifting apparatus E02F; earth drilling E21)  Foundation pits  Bordering {surfacing} or stiffening the sides of foundation pits
7/04 7/06 7/08 7/10 7/12 7/125 7/14 7/16 7/165 7/18	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>Qbiesel drivers</li> <li>Components for drivers {inasmuch as not specially for a specific driver construction}</li> <li>Scaffolds {or supports} for drivers {(guide frames for the elements to be driven per se E02D 13/04; supports of the artificial island type E02B 17/00)}</li> <li>(of variable length, e.g. foldable or telescopic)</li> <li>Placing by vibrating {(vibrators for soil compacting E02D 3/046)}</li> <li>Placing by pressure or pulling power</li> </ul>	15/02 15/04 15/06 15/08 15/10 <b>17/00</b> 17/02 17/04 17/06	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}  Sinking workpieces into water or soil {inasmuch as not provided for elsewhere}  Placing gravel or light material under water {inasmuch as not provided for elsewhere}  Excavations; Bordering of excavations; Making embankments (soil-shifting apparatus E02F; earth drilling E21)  Foundation pits  Bordering {surfacing} or stiffening the sides of foundation pits  Foundation {trenches} ditches or narrow shafts
7/04 7/06 7/08 7/10  7/12 7/125 7/14  7/16  7/165  7/18  7/20	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>Quiesel drivers</li> <li>Components for drivers {inasmuch as not specially for a specific driver construction}</li> <li>Scaffolds {or supports} for drivers {(guide frames for the elements to be driven per se E02D 13/04; supports of the artificial island type E02B 17/00)}</li> <li>(of variable length, e.g. foldable or telescopic}</li> <li>Placing by vibrating {(vibrators for soil compacting E02D 3/046)}</li> <li>Placing by pressure or pulling power</li> <li>Placing by screwing down {(screw piles per se</li> </ul>	15/02 15/04 15/06 15/08 15/10 <b>17/00</b> 17/02 17/04	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}  Sinking workpieces into water or soil {inasmuch as not provided for elsewhere}  Placing gravel or light material under water {inasmuch as not provided for elsewhere}  Excavations; Bordering of excavations; Making embankments (soil-shifting apparatus E02F; earth drilling E21)  Foundation pits  Bordering {surfacing} or stiffening the sides of foundation pits  Foundation {trenches} ditches or narrow shafts  Bordering or stiffening the sides of ditches
7/04 7/06 7/08 7/10  7/12 7/125 7/14  7/16  7/165  7/18  7/20 7/22	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>Quiesel drivers</li> <li>Components for drivers {inasmuch as not specially for a specific driver construction}</li> <li>Scaffolds {or supports} for drivers {(guide frames for the elements to be driven per se E02D 13/04; supports of the artificial island type E02B 17/00)}</li> <li>(of variable length, e.g. foldable or telescopic)</li> <li>Placing by vibrating {(vibrators for soil compacting E02D 3/046)}</li> <li>Placing by screwing down {(screw piles per se E02D 5/56)}</li> <li>Placing by using fluid jets {(prefabricated concrete</li> </ul>	15/02 15/04 15/06 15/08 15/10 <b>17/00</b> 17/02 17/04 17/06 17/08	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}  Sinking workpieces into water or soil {inasmuch as not provided for elsewhere}  Placing gravel or light material under water {inasmuch as not provided for elsewhere}  Excavations; Bordering of excavations; Making embankments (soil-shifting apparatus E02F; earth drilling E21)  Foundation pits  Bordering {surfacing} or stiffening the sides of foundation pits  Foundation {trenches} ditches or narrow shafts  Bordering or stiffening the sides of ditches {trenches} or narrow shafts for foundations
7/04 7/06 7/08 7/10  7/12 7/125 7/14  7/16  7/165  7/18  7/20 7/22  7/24	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>Quiesel drivers</li> <li>Components for drivers {inasmuch as not specially for a specific driver construction}</li> <li>Scaffolds {or supports} for drivers {(guide frames for the elements to be driven per se E02D 13/04; supports of the artificial island type E02B 17/00)}</li> <li>(of variable length, e.g. foldable or telescopic}</li> <li>Placing by vibrating {(vibrators for soil compacting E02D 3/046)}</li> <li>Placing by screwing down {(screw piles per se E02D 5/56)}</li> <li>Placing by using fluid jets {(prefabricated concrete piles with arrangements therefor E02D 5/32)}</li> </ul>	15/02 15/04 15/06 15/08 15/10 <b>17/00</b> 17/02 17/04 17/06	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}  Sinking workpieces into water or soil {inasmuch as not provided for elsewhere}  Placing gravel or light material under water {inasmuch as not provided for elsewhere}  Excavations; Bordering of excavations; Making embankments (soil-shifting apparatus E02F; earth drilling E21)  Foundation pits  Bordering {surfacing} or stiffening the sides of foundation pits  Foundation {trenches} ditches or narrow shafts  Bordering or stiffening the sides of ditches
7/04 7/06 7/08 7/10  7/12 7/125 7/14  7/16  7/165  7/18  7/20 7/22	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>Quiesel drivers</li> <li>Components for drivers {inasmuch as not specially for a specific driver construction}</li> <li>Scaffolds {or supports} for drivers {(guide frames for the elements to be driven per se E02D 13/04; supports of the artificial island type E02B 17/00)}</li> <li>(of variable length, e.g. foldable or telescopic)</li> <li>Placing by vibrating {(vibrators for soil compacting E02D 3/046)}</li> <li>Placing by screwing down {(screw piles per se E02D 5/56)}</li> <li>Placing by using fluid jets {(prefabricated concrete</li> </ul>	15/02 15/04 15/06 15/08 15/10 <b>17/00</b> 17/02 17/04 17/06 17/08	or the like caps, rings  Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}  Sinking workpieces into water or soil {inasmuch as not provided for elsewhere}  Placing gravel or light material under water {inasmuch as not provided for elsewhere}  Excavations; Bordering of excavations; Making embankments (soil-shifting apparatus E02F; earth drilling E21)  Foundation pits  Bordering {surfacing} or stiffening the sides of foundation pits  Foundation {trenches} ditches or narrow shafts  Bordering or stiffening the sides of ditches {trenches} or narrow shafts for foundations
7/04 7/06 7/08 7/10  7/12 7/125 7/14  7/16  7/165  7/18  7/20 7/22  7/24	<ul> <li>E04H 17/26})</li> <li>Placing by driving {(E02D 7/18 - E02D 7/24 take precedence)}</li> <li>Hand {(-actuated)} pile-drivers</li> <li>Power-driven drivers {(tampers E02D 3/061)}</li> <li>Drop drivers with free-falling hammer {(E02D 7/10 takes precedence)}</li> <li>with pressure-actuated hammer, {i.e. the pressure fluid acting directly on the hammer structure (E02D 7/12 takes precedence; vibrating drivers E02D 7/18)}</li> <li>Drivers with explosion chambers</li> <li>Quiesel drivers</li> <li>Components for drivers {inasmuch as not specially for a specific driver construction}</li> <li>Scaffolds {or supports} for drivers {(guide frames for the elements to be driven per se E02D 13/04; supports of the artificial island type E02B 17/00)}</li> <li>(of variable length, e.g. foldable or telescopic}</li> <li>Placing by vibrating {(vibrators for soil compacting E02D 3/046)}</li> <li>Placing by screwing down {(screw piles per se E02D 5/56)}</li> <li>Placing by using fluid jets {(prefabricated concrete piles with arrangements therefor E02D 5/32)}</li> </ul>	15/02 15/04 15/06 15/08 15/10 17/00 17/02 17/04 17/06 17/08 17/083	Handling building or like materials for hydraulic engineering or foundations ({soil-shifting E02F;} conveying or working-up concrete or similar masses in general E04G 21/02)  Handling of bulk concrete specially for foundation {or hydraulic engineering} purposes {(lining canals E02B 5/02; banks of the bodies of water E02B 3/121)}  Placing concrete in mould-pipes, pile tubes, boreholes or narrow shafts  Placing concrete under water {(for surfacing the bottom of bodies of water E02B 3/121)}  Sinking workpieces into water or soil {inasmuch as not provided for elsewhere}  Placing gravel or light material under water {inasmuch as not provided for elsewhere}  Excavations; Bordering of excavations; Making embankments (soil-shifting apparatus E02F; earth drilling E21)  Foundation pits  Bordering {surfacing} or stiffening the sides of foundation pits  Bordering or stiffening the sides of ditches {trenches} or narrow shafts for foundations  Shoring struts}

17/12	• Back-filling of foundation trenches or ditches {(apparatus therefor <u>E02F 5/12</u> , <u>E02F 5/22</u> )}	23/08	<ul> <li>Lowering or sinking caissons {(sinking mine shaft <u>E21D 1/00</u>)}</li> </ul>
17/13	<ul> <li>Foundation slots {or slits}; Implements for making these slots {or slits}</li> </ul>	23/10	<ul> <li>Caissons filled with compressed air {(<u>E02D 23/06</u> takes precedence)}</li> </ul>
17/16	<ul> <li>Loosening of soil or rock, under water (for</li> </ul>	23/12	Inclined lowering
	correcting streams E02B 3/02; by dredgers or	23/14	<ul> <li>Decreasing the skin friction while lowering</li> </ul>
	excavators <u>E02F</u> )	23/16	. Jointing caissons to the foundation soil, specially to
17/18	<ul> <li>Making embankments, {e.g. dikes,</li> </ul>		uneven foundation soil
	dams}(E02D 17/20 takes precedence; {foundations	25/00	
	for dams <u>E02D 27/40</u> })	25/00	Joining caissons, sinkers, or other units to each
17/20	<ul> <li>Securing of slopes or inclines { (by soil <u>E02D 3/12</u>;</li> </ul>		other under water
	protection against snowslides or avalanches	27/00	Foundations as substructures
	<u>E01F 7/04</u> , <u>E01F 15/00</u> ; securing banks or like	27/01	• Flat foundations
	surfaces facing on bodies of water <u>E02B 3/12</u> )}	27/013	• • {Shuttering specially adapted therefor}
17/202	• • {with flexible securing means}	27/016	• • {made mainly from prefabricated concrete
17/205	• • {with modular blocks, e.g. pre-fabricated}		elements}
17/207	• • {with means incorporating sheet piles or piles}	27/02	• Flat foundations without substantial excavation (E02D 27/04, E02D 27/08 take precedence)
19/00	Keeping dry foundation sites or other areas in the	27/04	• in water or on quicksand
10/05	<b>ground</b> (sheet piles or bulkheads <u>E02D 5/02</u> )		Floating caisson foundations
19/02	. Restraining of open water	27/06	Reinforcements for flat foundations
19/04	• • by coffer-dams {, e.g. made of sheet piles (permanent sheet piling boxes E02D 27/30)}	27/08	{(E02D 27/48 takes precedence)}
19/06	Restraining of underground water	27/10	<ul> <li>Deep foundations</li> </ul>
19/08	by employing open ditches arranged below the	27/12	• • Pile foundations
	level of the water	27/14	Pile framings {, i.e. piles assembled to form the
19/10	• • by lowering level of ground water {(installation		substructure}
	for obtaining or collecting drinking water	27/16	Foundations formed of separate piles
	<u>E03B 3/00</u> )}	27/18	Foundations formed by making use of caissons
19/12	<ul> <li>by damming or interrupting the passage of underground water</li> </ul>	27/20	Caisson foundations combined with pile foundations
19/14	by freezing the soil (in connection with sinking	27/22	Caisson foundations made by starting from fixed
	shafts <u>E21D 1/12</u> )		or floating artificial islands by using protective
19/16	by placing or applying sealing substances		bulkheads
	({E02D 19/18 takes precedence}; consolidating	27/24	<ul> <li>Foundations constructed by making use of diving-</li> </ul>
	by placing solidifying or pore-filling pore-		bells (equipment for dwelling or working under
	filling substances in the soil <u>E02D 3/12</u>		water <u>B63C 11/00</u> )
	{; improving soil by chemical substances C09K 17/00})	27/26	• Compacting soil locally before forming foundations;
19/18	• • • by making use of sealing aprons, {e.g.		Construction of foundation structures by forcing binding substances into gravel fillings
17/10	diaphragms made from bituminous or clay		(consolidating foundation soil in general
	material \ (\{\text{concrete diaphragms } \frac{\text{E02D } 5/18}{}\};		E02D 3/02 - E02D 3/12; {for piles E02D 5/02,
	sealing or joints for {hydraulic} engineering		E02D 5/46})
	work <u>E02B 3/16</u> )	27/28	• Stressing the soil or the foundation structure while
19/185	• • • { Joints between sheets constituting the		forming foundations
	sealing aprons}	27/30	• Foundations made with permanent use of sheet pile
19/20	by displacing the water, e.g. by compressed air		bulkheads, walls of planks, or sheet piling boxes
	{(pneumatic caissons <u>E02D 23/04</u> )}	27/32	• Foundations for special purposes {(for paving of
19/22	<ul> <li>Lining sumps in trenches {or other foundation pits}</li> </ul>		roads <u>E01C 3/00</u> )}
23/00	Caissons; Construction or placing of caissons	27/34	Foundations for sinking or earthquake territories
23/00	(tunnels submerged into or built in open water		(building constructions with protection
	E02D 29/063 {; moles, piers, quays, breakwaters		arrangements against earthquakes <u>E04H 9/02</u> )
	incorporating caissons <u>E02B 3/06</u> ; foundation formed	27/35	• • Foundations formed in frozen ground, e.g. in
	by caissons <u>E02D 27/18</u> - <u>E02D 27/22</u> ; caisson-like		permafrost soil
	artificial islands E02B 17/00})	27/36	• Foundations formed in moors or bogs
23/02	Caissons able to be floated on water and to be	27/38	• Foundations for large tanks, e.g. oil tanks
	lowered into water in situ {(floating caisson	27/40	• Foundations for dams across valleys or for
	foundations <u>E02D 27/06</u> )}		dam constructions {(dams per se E02B 3/10,
23/04	• Pneumatic caissons {(sinking of same	27/42	E02B 7/04)}
	<u>E02D 23/10</u> )}	21/42	• Foundations for poles, masts or chimneys {(sockets or holders for poles or masts per se
23/06	• • Bringing persons or material into or out of		E04H 12/22)
	compressed air caissons {(air locks in mines	27/425	• • { specially adapted for wind motors masts (wind
	<u>E21F 1/14</u> )}	2.7 123	motors per se F03D 1/00)}

27/44	Foundations for machines, engines or ordnance (special layout of foundations with respect to	29/067	<ul> <li>Floating tunnels; Submerged bridge-like tunnels,</li> <li>i.e. tunnels supported by piers or the like above</li> </ul>
	machinery to be supported <u>F16M 9/00</u> )		the water-bed (pontoons or floating bridges
27/46	Foundations for supply conduits or other canals		E01D 15/14)
	{(bridges for supporting conduits <u>E01D 18/00</u> ;	29/07	Tunnels or shuttering therefor preconstructed as
	elevated canals E02B 5/005; penstocks		a whole or continuously made, and moved into
	E02B 9/06)}		place on the water-bed, e.g. into a preformed
27/48	Foundations inserted underneath existing		trench
	buildings or constructions {(making a new	29/073	Tunnels or shuttering therefor assembled from
	substructure subsequent to lifting or moving of		sections individually sunk onto, or laid on, the
27/50	buildings <u>E04G 23/06</u> )}		water-bed, e.g. in a preformed trench (caisson-
27/50	. Anchored foundations		type sections lowered onto the water-bed E02D 29/077)
27/52	• Submerged foundations {, i.e. submerged in	29/077	Tunnels at least partially built beneath the water-
	open water ( <u>E02D 27/12</u> - <u>E02D 27/24</u> take precedence)}	29/011	bed characterised by being made by methods
27/525	• • {using elements penetrating the underwater		involving disturbance thereof all along the
211323	ground (sinking work pieces <u>E02D 15/08</u> ,		location line, e.g. by cut-and-cover or caisson
	sinking caissons <u>E02D 23/02</u> )}		methods
		29/08	• {Siphons (for sewerage <u>E03F 5/20</u> ; siphon weirs
29/00	{Independent} underground or underwater		<u>E02B 7/18</u> ; siphons in general <u>F04F 10/00</u> )}
	structures (underground tanks <u>B65D 88/76</u> ;	29/10	• {Tunnels or galleries specially adapted to house
	hydraulic engineering, e.g. sealings or joints, <u>E02B</u> ; underground garages <u>E04H 6/00</u> ; underground air-		conduits, e.g. oil pipe-lines, sewer pipes (for
	raid shelters <u>E04H 9/12</u> ; burial vaults <u>E04H 13/00</u> );		pressure water conduits <u>E02B 9/06</u> ; for cables
	Retaining walls		H02G 9/02; layout of tunnels or galleries in general
29/02	Retaining or protecting walls (piers or quay walls		E21D 9/14; road kerbs with housings for pipes or the like E01C 11/222); Making conduits in situ,
	E02B 3/06)		e.g. of concrete (combined with digging of trenches
29/0208	• • {Gabions}		or ditches $\underline{E02F}$ 5/10; making or lining tunnels or
29/0216	• • {Cribbing walls}		galleries <u>E21D</u> ; constructing tunnels or galleries
29/0225	{comprising retention means in the backfill}		in open excavations E02D 29/045; in open water
29/0233	{the retention means being anchors (details of		E02D 29/063); Casings, i.e. manhole shafts, access
	anchors <u>E02D 5/80</u> )}		or inspection chambers or coverings of boreholes or
29/0241	• • • {the retention means being reinforced earth		narrow wells (wells for drinking water <u>E03B 3/08;</u>
	elements}		boreholes or wells formed by deep drilling <u>E21B</u> ; shafts <u>E21D</u> )}
29/025	• • {made up of similar modular elements stacked	29/12	Manhole shafts; Other inspection or access
20/02/0	without mortar}	2)/12	chambers; Accessories therefor (for underground
29/0258	• • {characterised by constructional features}		tanks <u>B65D 90/10</u> ; for sewerage <u>E03F 5/02</u> {;
29/0266	• • {made up of preformed elements}		climbing irons or ladders <u>E06C 9/00</u> })
29/0275	{cast in situ}	29/121	{characterised by the connection between shaft
29/0283 29/0291	<ul><li> {of mixed type}</li><li> {made up of filled, bag-like elements}</li></ul>		elements, e.g. of rings forming said shaft}
29/0291	• • • • • • • • • • • • • • • • • • •	29/122	• • {Steps or handrails for shafts}
27/04	underground plants, e.g. stations of underground	29/124	• • {Shaft entirely made of synthetic material}
	railways; Construction or layout thereof	29/125	• • {characterised by the lining of the shaft}
	(E02D 29/10 takes precedence; water-supply or	29/127	• • { with devices for impeding fall or injuries of
	sewerage plants <u>E03</u> ; layout of water power plants		persons}
	E02B 9/00; making large underground chambers by	29/128	• • {Repairs of manhole shafts}
	underground methods only <u>E21D 13/00</u> )}	29/14	Covers for manholes or the like; Frames for
29/045	• Underground structures, e.g. tunnels or galleries,	29/1409	covers {(gully gratings <u>E03F 5/06</u> )} {adjustable in height or inclination}
	built in the open air or by methods involving	29/1409	<ul><li>• { adjustable in neight of inclination}</li><li>• • { with implements to assist in lifting, e.g.</li></ul>
	disturbance of the ground surface all along the location line; Methods of making them	29/1410	counterweights, springs (lifting devices for
29/05	at least part of the cross-section being constructed		covers <u>B66F 19/005</u> )}
2)/03	in an open excavation or from the ground surface,	29/1427	• • • {Locking devices (of bayonet type
	e.g. assembled in a trench		E02D 29/14)}
29/055	further excavation of the cross-section	29/1436	• • • {with overflow or explosion control means, e.g.
	proceeding underneath an already installed part		check or relief valves}
	of the structure, e.g. the roof of a tunnel	29/1445	• • • {Tools for positioning or removing cover
29/06	• {Constructions, or methods of constructing, in		frames}
	water (E02D 15/00 takes precedence; submerged	29/1454	• • • {Non-circular covers, e.g. hexagonal, elliptic}
	foundations E02D 27/52)}	29/1463	• • • {Hinged connection of cover to frame}
29/063	Tunnels submerged into, or built in, open water	29/1472	• • • {Cover entirely made of synthetic material}
	(construction or placing of caissons in general <u>E02D 23/00</u> ; joining caissons to each other under	29/1481	• • • {Security devices, e.g. indicating unauthorised
	water, in general E02D 25/00)	20/140	opening (E02D 29/1427 takes precedence)}
	, in general <u>2022 25/00</u> )	29/149	• • • {Annular gaskets}

29/16	Arrangement or construction of joints in foundation	2200/143	helically or spirally shaped
	structures ({for hydraulic engineering <u>E02B 3/16</u> };	2200/146	Springs
	sealing joints not restricted to foundation structures	2200/15	<ul> <li>including at least a hinge</li> </ul>
	<u>E04B 1/68</u> )	2200/16	. Shapes
31/00	Protective arrangements for foundations or	2200/1607	round, e.g. circle
	foundation structures {(protective casings for	2200/1614	made from single element
	piles <u>E02D 5/60</u> )}; Ground foundation measures	2200/1621	made from multiple elements
	for protecting the soil or the subsoil water, e.g.	2200/1628	rectangular
	preventing or counteracting oil pollution (spillage	2200/1635	made from single element
	retaining means for tanks <u>B65D 90/24</u> )	2200/1642	made from multiple elements
31/002	<ul> <li>{Ground foundation measures for protecting</li> </ul>	2200/165	polygonal
	the soil or subsoil water, e.g. preventing or	2200/1657	made from single element
	counteracting oil pollution (not used, <u>see</u> subgroups	2200/1664	made from multiple elements
21/004	and <u>E02D 31/00</u> )}	2200/1671	helical or spiral
31/004	{Sealing liners}	2200/1678	triangular
31/006	• • {Sealing of existing landfills, e.g. using mining	2200/1685	cylindrical
21/000	techniques}	2200/1692	conical or convex
31/008	• {against entry of noxious gases, e.g. Radon}	2200/17	including an electric conductive element
31/02	• against ground humidity or ground water {( <u>E02D 31/06</u> takes precedence; arrangements other	2220/00	Temporary installations or constructions
	than according to E02D 31/04; against hydraulic pressure of groundwater E02D 31/10)}	2250/00	Production methods
31/025	• • {Draining membranes, sheets or fabric specially	2250/0007	• using a mold
31/023	adapted therefor, e.g. with dimples}	2250/0015	using extrusion
31/04	Watertight packings for use under hydraulic	2250/0023	• Cast, i.e. in situ or in a mold or other formwor
01/01	pressure {(sealings for hydraulic engineering	2250/003	Injection of material
	in general <u>E02B 3/16</u> ; for building structures in	2250/0038	using an auger, i.e. continuous flight type
	general <u>E04B 1/66</u> )}	2250/0046	using prestressing techniques
31/06	<ul> <li>against corrosion by soil or water</li> </ul>	2250/0053	using suction or vacuum techniques
31/08	<ul> <li>against transmission of vibrations or movements in</li> </ul>	2250/0061	for working underwater
	the foundation soil {( <u>E02D 27/34</u> takes precedence;	2250/0069	Welding
	foundations for machines, engines or ordnance	2250/0076	. Drilling
	<u>E02D 27/44</u> ; for road foundations <u>E01C 3/06</u> )}	2250/0084	using pneumatical means
31/10	<ul> <li>against soil pressure or hydraulic pressure {(anchored foundations <u>E02D 27/50</u>; joint sealings</li> </ul>	2250/0092	using hydraulical means
	for use under hydraulic pressure <u>E02D 31/04</u> )}	2300/00	Materials
31/12	<ul> <li>against upward hydraulic pressure</li> </ul>	2300/0001	• Rubbers
31/14	<ul> <li>against frost heaves in soil</li> </ul>	2300/0003	Car tires
33/00	Testing foundations or foundation structures	2300/0004	• Synthetics
33/00	Testing foundations or foundation structures (testing methods and apparatus, see the relevant	2300/0006	Plastics
	subclasses of class <u>G01</u> ; testing structures or	2300/0007	PVC
	apparatus as regards function, in general, <u>G01M</u> ;	2300/0009	PE
	testing or determining chemical or physical	2300/001	PP
	properties, in general G01N)	2300/0012	recycled
		2300/0014	
35/00	Straightening, lifting, or lowering of foundation	2300/0015	HDPE
	structures or of constructions erected on		thermoplastic
	foundations {(foundations for sinking territories		Cement used as binder
	with incorporated means for remedying settlement		Concrete
	E02D 27/34; lifting or moving buildings		Mortar
25/005	E04G 23/06)}		Slurry
35/005	• {Lowering or lifting of foundation structures}		Adhesives, i.e. glues
37/00	Repair of damaged foundations or foundation	2300/0026	
	structures {(renewing piles E02D 5/64; roads		Copper
	<u>E01C 11/005</u> ; bridges <u>E01D 22/00</u> ; repairing		• • Steel; Iron
	buildings <u>E04G 23/02</u> )}		• • in cast iron form
200/00	Competition on where the competition		in sheet form, i.e. bent or deformed plate-
200/00	Geometrical or physical properties		material
200/11	Height being adjustable	2300/0034	in wire form
		2300/0034	
200/115	with separate pieces		Aluminium
2200/115 2200/12	<ul><li>with separate pieces</li><li>corrugated</li></ul>	2300/0035	Aluminium
2200/11 2200/115 2200/12 2200/13 2200/14	with separate pieces	2300/0035 2300/0037	Aluminium

2600/40

```
2300/0042 . . . being modified by adding substances
2300/0043 . . . with other ingredients
2300/0045 . Composites
2300/0046 . Foams
2300/0048 . . PU
2300/005 . . PE
2300/0051 . Including fibers
2300/0053 . . made from glass
2300/0054 . . made from plastic
2300/0056 . . . PVC
2300/0057 . . . PE
2300/0059 . . . PP
2300/006 . . . being recycled
2300/0062 . . . Shredded car tires
2300/0064 . . made from metal
2300/0065 . . made from textile
2300/0067 . . made from cellulose
2300/0068 . . made from carbon
2300/007 . Resins including glasfibers
2300/0071 . Wood
2300/0073 • Explosives
2300/0075 . Textiles
2300/0076 . . non-woven
2300/0078 . . woven
2300/0079 . Granulates
2300/0081 . Ceramics
2300/0082 . Cellulose
2300/0084 . Geogrids
2300/0085 . Geotextiles
2300/0087 . . woven
2300/0089 . . non-woven
2300/009 . . with multi-layer structure
2300/0092 . . . including a liquid tight layer
2300/0093 . . . including bentonite
2300/0095 . . . including a plastic membrane
2300/0096 . . with external friction enhancement features
2300/0098 • Bitumen
2450/00 Gaskets
2450/10 . Membranes
2450/101 . . permeable
2450/102 . . . for liquids
2450/103 . . . for gases
2450/105 . . impermeable
2450/106 . . . for liquids
2450/107 . . . for gases
2450/108 . . multi-layered
2600/00 Miscellaneous
2600/10 . comprising sensor means
. comprising details of connection between elements
2600/30 . comprising anchoring details
```

comprising stabilising elements