CPC COOPERATIVE PATENT CLASSIFICATION

E FIXED CONSTRUCTIONS

BUILDING

E02 HYDRAULIC ENGINEERING; FOUNDATIONS; SOIL SHIFTING

E02B HYDRAULIC ENGINEERING (ship-lifting <u>E02C</u>; dredging <u>E02F</u>)

WARNING

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

1/00	Equipment or apparatus for, or methods of, general hydraulic engineering {, e.g. protection of constructions against ice-strains (protection of offshore constructions against ice-loads	3/062	• • • {Constructions floating in operational condition, e.g. breakwaters or wave dissipating walls (floating oil barriers <u>E02B 15/08</u> ; floating stream regulating devices <u>E02B 3/02</u>)}
1/003	E02B 17/0021; ice-structures as artificial islands E02B 17/028)} • {Mechanically induced gas or liquid streams in	3/064	• • • • {Floating landing-stages (construction of pontoons <u>B63B 35/34</u> ; landing bridges <u>E01D 15/14</u>)}
	seas, lakes or water-courses for forming weirs or breakwaters; making or keeping water surfaces	3/066	• • • {Quays (bulkheads <u>E02D 5/00</u> ; caissons <u>E02D 23/00</u> ; retaining walls <u>E02D 29/00</u>)}
	free from ice, aerating or circulating water, e.g. screens of air-bubbles against sludge formation or salt water entry, pump-assisted water circulation	3/068	• • • {Landing stages for vessels (floating landing-stages <u>E02B 3/064;</u> landing bridges <u>E01D 15/14)</u> }
	(moving sediments <u>E02B 3/023</u> ; for ice breakers <u>B63B 35/08</u> ; aerating or circulating water in fish-	3/08	• • • Structures of loose stones with or without piles (piles <u>E02D 5/00</u>)
	tanks <u>A01K 63/042</u> ; purification of waste water with addition of air <u>C02F</u> ; distributing gases in liquids in general <u>B01F 23/20</u>)}	3/10	 Dams; Dykes; Sluice ways or other structures for dykes, dams, or the like (making embankments or dams in general <u>E02D 17/18</u>)
1/006	• {Arresting, diverting or chasing away fish in water-	3/102	• • • {Permanently installed raisable dykes}
	courses or water intake ducts, seas or lakes, e.g.	3/104	{with self-activating means}
	fish barrages, deterrent devices (E02B 8/085 takes	3/106	{Temporary dykes}
1 /02	precedence); Devices for cleaning fish barriers}	3/108	• • • { with a filling, e.g. filled by water or sand }
1/02	 Hydraulic models {(towing tanks or basins for model vessels <u>B63B 71/20</u>)} 	3/12	• Revetment of banks, dams, watercourses, or the like, {e.g. the sea-floor}(of slopes in general
3/00			
3/00	Engineering works in connection with control or		E02D 17/20)
3/00	Engineering works in connection with control or use of streams, rivers, coasts, or other marine sites	3/121	E02D 17/20) Devices for applying linings on banks or the
3/00	use of streams, rivers, coasts, or other marine sites	3/121	{Devices for applying linings on banks or the
3/00	use of streams, rivers, coasts, or other marine sites (barrages or weirs <u>E02B 7/00</u>); Sealings or joints for		• • {Devices for applying linings on banks or the water bottom (for lining canals <u>E02B 5/02</u>)}
	use of streams, rivers, coasts, or other marine sites (barrages or weirs <u>E02B 7/00</u>); Sealings or joints for engineering works in general	3/121 3/122	 . • {Devices for applying linings on banks or the water bottom (for lining canals <u>E02B 5/02</u>)} . • {Flexible prefabricated covering elements, e.g.
3/00 3/02	use of streams, rivers, coasts, or other marine sites (barrages or weirs E02B 7/00); Sealings or joints for engineering works in general Stream regulation, e.g. breaking up subaqueous rock, cleaning the beds of waterways, directing the		 {Devices for applying linings on banks or the water bottom (for lining canals <u>E02B 5/02</u>)} {Flexible prefabricated covering elements, e.g. mats, strips} {mainly consisting of stone, concrete or
	use of streams, rivers, coasts, or other marine sites (barrages or weirs <u>E02B 7/00</u>); Sealings or joints for engineering works in general Stream regulation, e.g. breaking up subaqueous rock, cleaning the beds of waterways, directing the water flow ({harvesting water plants <u>A01D 44/00</u> ;	3/122 3/123	 . • {Devices for applying linings on banks or the water bottom (for lining canals <u>E02B 5/02</u>)} . • {Flexible prefabricated covering elements, e.g. mats, strips} . • {mainly consisting of stone, concrete or similar stony material}
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3/02 3/023 3/026	 use of streams, rivers, coasts, or other marine sites (barrages or weirs E02B 7/00); Sealings or joints for engineering works in general Stream regulation, e.g. breaking up subaqueous rock, cleaning the beds of waterways, directing the water flow ({harvesting water plants A01D 44/00; underwater loosening of soil or rocks for foundation construction E02D 17/16}; dredging or scraping devices E02F 5/28) • {Removing sediments (in barrages or reservoirs E02B 8/02)} • {Removing solid rocks} • Structures or apparatus for, or methods of, protecting banks, coasts, or harbours ({E02B 1/003 	3/122 3/123 3/124 3/125 3/126 3/127	 {Devices for applying linings on banks or the water bottom (for lining canals E02B 5/02)} {Flexible prefabricated covering elements, e.g. mats, strips} {mainly consisting of stone, concrete or similar stony material} {mainly consisting of metal} {mainly consisting of vegetable material, e.g. wood, reeds} {mainly consisting of bituminous material or synthetic resins} {bags filled at the side} {Coherent linings made on the spot, e.g. cast in situ, extruded on the spot (for canal linings E02B 5/02)} {Polyhedrons, tetrapods or similar bodies,
3/02 3/023 3/026 3/04	 use of streams, rivers, coasts, or other marine sites (barrages or weirs E02B 7/00); Sealings or joints for engineering works in general Stream regulation, e.g. breaking up subaqueous rock, cleaning the beds of waterways, directing the water flow ({harvesting water plants A01D 44/00; underwater loosening of soil or rocks for foundation construction E02D 17/16}; dredging or scraping devices E02F 5/28) • {Removing sediments (in barrages or reservoirs E02B 8/02)} • {Removing solid rocks} • Structures or apparatus for, or methods of, protecting banks, coasts, or harbours ({E02B 1/003 takes precedence;} sealing or joints E02B 3/16) • {using active mechanical means, e.g. fluidizing or pumping} 	3/122 3/123 3/124 3/125 3/126 3/127 3/128	 • • {Devices for applying linings on banks or the water bottom (for lining canals E02B 5/02)} • • {Flexible prefabricated covering elements, e.g. mats, strips} • • {mainly consisting of stone, concrete or similar stony material} • • {mainly consisting of metal} • • {mainly consisting of vegetable material, e.g. wood, reeds} • • {mainly consisting of bituminous material or synthetic resins} • • {bags filled at the side} • • {Coherent linings made on the spot, e.g. cast in situ, extruded on the spot (for canal linings E02B 5/02)} • • {Polyhedrons, tetrapods or similar bodies, whether or not threaded on strings}
3/023 3/023 3/026 3/04 3/041	 use of streams, rivers, coasts, or other marine sites (barrages or weirs E02B 7/00); Sealings or joints for engineering works in general Stream regulation, e.g. breaking up subaqueous rock, cleaning the beds of waterways, directing the water flow ({harvesting water plants A01D 44/00; underwater loosening of soil or rocks for foundation construction E02D 17/16}; dredging or scraping devices E02F 5/28) • {Removing sediments (in barrages or reservoirs E02B 8/02)} • {Removing solid rocks} • Structures or apparatus for, or methods of, protecting banks, coasts, or harbours ({E02B 1/003 takes precedence;} sealing or joints E02B 3/16) • {using active mechanical means, e.g. fluidizing or 	3/122 3/123 3/124 3/125 3/126 3/127 3/128	 {Devices for applying linings on banks or the water bottom (for lining canals E02B 5/02)} {Flexible prefabricated covering elements, e.g. mats, strips} {mainly consisting of stone, concrete or similar stony material} {mainly consisting of metal} {mainly consisting of vegetable material, e.g. wood, reeds} {mainly consisting of bituminous material or synthetic resins} {bags filled at the side} {Coherent linings made on the spot, e.g. cast in situ, extruded on the spot (for canal linings E02B 5/02)} {Polyhedrons, tetrapods or similar bodies,

3/16	• Sealings or joints ({E02B 3/12 takes precedence; sealings for specific structural foundation elements,	7/18	• • Siphon weirs {(syphons in hydraulic engineering in general E02D 29/08)}
	seamings for specific structural foundation elements, see the relevant groups for those elements; sealings	7/20	
	for barrage or lock gates E02B 7/54}; joints for	7/20	• Movable barrages; Lock {or dry-dock} gates
	foundation structures $\underline{E02D}$ $\underline{7.54}$, joints for	7/205	• • {Barrages controlled by the variations of the
	restricted to hydraulic engineering work <u>E04B 1/68</u>)		water level; automatically functioning barrages
3/18	• Reclamation of land from water {or		(level regulators <u>G05D 9/00</u> ; the documents
3/10	marshes}(drainage of soil <u>E02B 11/00</u>)		are filed in this subdivision and the relevant
2/20		7/22	subdivision <u>E02B 7/26</u> - <u>E02B 7/50</u>)}
3/20	• Equipment for shipping on coasts, in harbours	7/22	Stop log dams; Emergency gates
	or on other fixed marine structures, e.g. bollards	7/24	Needle weirs
	(tying-up, anchoring <u>B63B 21/00</u> , e.g. bollards	7/26	Vertical-lift gates
	for shipping <u>B63B 21/06</u> ; buoys <u>B63B 22/00</u> {;	7/28	with sliding gates
	equipment specially adapted for use in locks or dry docks <u>E02C 1/10</u> })	7/30	• • • with guide wheels or rollers for the gates
2/24		7/32	Cylindrical or tubular gates
3/24	Mooring posts	7/34	Flash- boards for vertical-lift gates
3/26	• Fenders ({fenders for protecting offshore	7/36	Elevating mechanisms for vertical-lift gates
	constructions <u>E02B 17/003</u> }; fenders integral	7/38	• Rolling gates {or gates moving horizontally in
	with waterborne vessels or specially adapted	7750	their own plane, e.g. by sliding}
	therefor <u>B63B 59/02</u>)	7/40	Swinging or turning gates
3/28	Fender piles	7/42	Gates of segmental or sector-like shape with
5/00	Artificial water canals, {e.g. irrigation canals}(for	1/42	-
5/00	water-power plants <u>E02B 9/02</u> ; irrigation of soil	7/44	horizontal axis
	E02B 13/00)	7/44	Hinged-leaf gates
5/005		7/46	Gates turning round a horizontal axis arranged
3/003	• {Canals entirely situated above ground level, e.g. on		midway of the flap
T/02	piers (canal bridges <u>E01D 18/00</u>)}	7/48	Roof or double shutter gates
5/02	• Making or lining canals {(linings in general	7/50	Floating gates
	<u>E02B 13/02</u> ; digging canals <u>E02F</u>)}	7/52	 Equipment preventing vibration of gates
5/04	Navigable canals	7/54	Sealings for gates
5/06	• Operating equipment in connection with canals	0.00	
	(ship-lifting devices <u>E02C</u>)	8/00	Details of barrages or weirs (cleaning or keeping
5/08	 Details, e.g. gates, screens 		clear the surface of open water <u>E02B 15/00</u>){;
	<u>NOTE</u>		Energy dissipating devices carried by lock or dry- dock gates}
	This subdivision is limited to closures, devices	8/02	Sediment base gates; Sand sluices; Structures for
	for arresting waterborne materials and divisors		retaining arresting waterborne material
		8/023	{Arresting devices for waterborne materials
5/082	• • {Closures (for irrigation conduits <u>E02B 13/02</u>)}		(E02B 1/003 takes precedence; in artificial
5/085	• • {Arresting devices for waterborne materials,		watercourses <u>E02B 5/085</u> ; arresting oil or the
	e.g. gratings (fish barrages <u>E02B 1/006</u> ;		like E02B 15/08; sieving devices for waste water
	removing sediments <u>E02B 3/023</u> ; arresting oil		purification $\underline{\text{C02F}}$; in sewers $\underline{\text{E03F 5/14}}$)
	or similar polluants <u>E02B 15/08</u> ; for waste water	8/026	{Cleaning devices (for fish barrages
	purification $\underline{E02F}$; in sewers $\underline{E03F5/14}$)		E02B 1/006)}
5/087	{Divisors}	8/04	• Valves, slides, or the like; {Arrangements therefor;}
7/00	Barrages or weirs; Layout, construction, methods		Submerged sluice gates
//00		8/045	• • {automatically movable}
	of, or devices for, making same (for protecting	8/06	 Spillways; Devices for dissipation of energy, e.g.
	banks, coasts, or harbours <u>E02B 3/04</u> ; sealings or	8/00	for reducing eddies {also for lock or dry-dock
	joints <u>E02B 3/16</u> ; handling building or like materials		- · · · · · · · · · · · · · · · · · · ·
	for hydraulic engineering <u>E02D 15/00</u> ; foundations in	0/00	gates}
	general <u>E02D 27/00</u>)	8/08	• Fish passes {or other means providing for migration
7/005	• {Deformable barrages or barrages consisting of	0./00.5	of fish}; Passages for rafts or boats
	permanently deformable elements, e.g. inflatable,	8/085	• • {Devices allowing fish migration, e.g. fish
	with flexible walls (closures <u>E02B 7/54</u> ; floating oil		traps (arresting or diverting fish exclusively
	barrages <u>E02B 15/08</u>)}		<u>E02B 1/006</u>)}
7/02	Fixed barrages	9/00	Water-power plants; Layout, construction or
7/04	Dams across valleys	. ,	equipment, methods of, or apparatus for, making
7/06	Earth-fill dams; Rock-fill dams		same
	Wall dams	9/02	• Water-ways
7/08	Gravity dams, i.e. those in which the weight	9/022	• {Closures}
7/08 7/10	• • • • Gravity dams, i.e. those in which the weight	2/022	• • [0.1030103]
		0/025	(automatically mayable)
7/10	of the structure prevents overturning Arch dams	9/025	{automatically movable}
7/10 7/12	of the structure prevents overturning Arch dams	9/025 9/027	• • • {Sliding closures (<u>E02B 9/025</u> takes
7/10 7/12 7/14	of the structure prevents overturning Arch dams Buttress dams	9/027	• • • {Sliding closures (<u>E02B 9/025</u> takes precedence)}
7/10 7/12	of the structure prevents overturning Arch dams		• • • {Sliding closures (<u>E02B 9/025</u> takes

0/06		15/047	
9/06	 Pressure galleries or pressure conduits; Galleries specially adapted to house pressure conduits; 	15/047	 . • {provided with an oil collecting boom arranged on at least one side of the hull}
	Means specially adapted for use therewith, e.g.	15/048	Oil collectors moved over the water skimming
	housings, valves, gates (driving inclined galleries	13/046	the water surface}
	E21D 9/02; valves in general F16K; conduits in	15/06	Barriers therefor (E02B 15/08 takes)
	general F16L)	13/00	precedence){construed for applying processing
9/08	Tide or wave power plants (water-pressure		agents or for collecting pollutants, e.g. absorbent
	machines, tide or wave motors <u>F03B</u>)	15/08	• Devices for reducing the polluted area {with or}
11/00	Drainage of soil, e.g. for agricultural purposes		without {additional devices for} removing the
11/00	{(draining sports grounds <u>E01C 13/083</u> ; for		material
	consolidating foundation soil, e.g. sand drain piles	15/0807	• • { with stabilising elements }
	E02D 3/10)}	15/0814	• • { with underwater curtains }
11/005	• {Drainage conduits}	15/0821	• • • {adapted for protection against fire or extreme
11/02	 Drainage device- laying apparatus, e.g. drainage 	15/0020	heat}
	ploughs	15/0828	• • • {fixed to the side of a boat for containing small leaks in the hull}
	WARNING	15/0835	• • • {fixed to permanent structure, e.g. harbour wall
	Group E02B 11/02 is incomplete, see also	13/0033	or river bank}
	$\underline{E02F}$ 3/00 and $\underline{E02F}$ 5/00, dredgers and soil-	15/0842	• • • {adapted to be towed for operation}
	shifting machines	15/085	{Details of connectors}
12/00		15/0857	{Buoyancy material}
13/00	Irrigation ditches, i.e. gravity flow, open channel	15/0864	• • • • {Air (<u>E02B 15/0878</u> takes precedence)}
	water distribution systems ({retaining waterborne material in irrigation canals <u>E02B 5/085</u> }; other	15/0871	• • • • {self-inflating barriers}
	distribution systems for watering or spraying gardens,	15/0878	{Air and water}
	fields, sports grounds, or the like, <u>A01G 25/00</u> ; {built-	15/0885	{Foam}
	in irrigation means for sports grounds E01C 13/083})	15/0892	• • • • {using expanded polystyrene foam}
13/02	Closures for irrigation conduits	15/10	• Devices for removing the material from
15/00	<u>-</u>		the surface {(<u>E02B 15/041</u> , <u>E02B 15/042</u> ,
15/00	Cleaning or keeping clear the surface of open water; Apparatus therefor (construction of ships or	17/101	E02B 15/06 take precedence)}
	other waterborne vessels <u>B63B</u> , e.g. vessels specially	15/101	• • • {Means floating loosely on the water absorbing
	adapted for collecting pollution from open water	15/102	the oil (absorbing materials <u>CO2F</u>)} {Discs}
	B63B 35/32; in swimming or splash baths or pools	15/102	{Rotary drums}
	E04H 4/16)	15/103	{Conveyors; Paddle wheels; Endless belts
2015/005	• {Tent-like structures for dealing with pollutant	13/104	(E02B 15/101 takes precedence)
	emissions below the water surface}	15/105	• • • {Archimedian screws}
15/02	 from ice {otherwise than according to 	15/106	• • • {Overflow skimmers with suction heads;
	E02B 1/003} (construction of ships B63B; {ice-		suction heads}
	breakers or amphibious vehicles <u>B63B 35/08</u> ;	15/107	• • • {Whirling means forming a vortex in the water;
	protecting hydraulic engineering structures against ice-load <u>E02B 1/00</u> })		cyclones}
15/04	Devices for cleaning or keeping clear the surface	15/108	{Ejection means}
	of open water from oil or like floating materials by	17/00	Artificial islands mounted on piles or like
	separating or removing these materials ({stopping		supports, e.g. platforms on raisable legs {or
	water-borne material in artificial water canals		offshore constructions}; Construction methods
	E02B 5/085; stopping water-borne material at		therefor ({construction methods for floating
	barrages or weirs <u>E02B 8/023</u> }; other treatment		platforms <u>B63B 75/00</u> }; anchoring floating platforms
	of water, waste water or sewage <u>C02F</u> ; materials for treating liquid pollutants, e.g. oil, gasoline, fat,		B63B 21/00; floating platforms, e.g. anchored,
	C09K 3/32 {; separation of oil in sewage conduits	17/0004	<u>B63B 35/44;</u> {underwater reservoirs <u>B65D 88/78</u> })
	E03F 5/16})	17/0004	(Modal points)
15/041	• • {Devices for distributing materials, e.g. absorbed	17/0008	• {Methods for grouting offshore structures; apparatus therefor (cementing boreholes
	or magnetic particles over a surface of open water		E21B 33/13)}
	to remove the oil, with or without means for	17/0013	• {Tube closures for releasable sealing hollow tubes}
	picking up the treated oil (E02B 15/042 takes	17/0017	• {Means for protecting offshore constructions}
15/040	precedence)}	17/0021	• {against ice-loads}
15/042	 {Devices for removing the oil by combustion with or without means for picking up the oil} 	17/0026	• • {against corrosion}
15/043	Devices or methods for removing oil by means	17/003	{Fenders}
13/043	of freezing}	17/0034	• {Maintenance, repair or inspection of offshore
15/045	Separating means for recovering oil floating		constructions}
2.4.2	on a surface of open water (E02B 15/048 takes		• {Methods for placing the offshore structure}
	precedence; separation in general <u>B01D</u>)}	2017/0043	• • (Placing the offshore structure on a pre-installed
15/046	• • {Collection of oil using vessels, i.e. boats,	2017/0047	foundation structure}
	barges}	201//004/	• • {using a barge}

2017/0052	• {Removal or dismantling of offshore structures
	from their offshore location}
2017/0056	• {Platforms with supporting legs}
2017/006	• {with lattice style supporting legs}
2017/0065 2017/0069	{Monopile structures}
2017/0009	 {Gravity structures} {Details of sea bottom engaging footing}
2017/0078	Suction piles, suction cans
2017/0076	 {Spudcans, skirts or extended feet}
2017/0086	• • {Large footings connecting several legs or serving as a reservoir for the storage of oil or gas}
2017/0091	• {Offshore structures for wind turbines}
2017/0095	• {Connections of subsea risers, piping or wiring with
	the offshore structure}
17/02	 placed by lowering the supporting construction to
	the bottom, e.g. with subsequent fixing thereto
17/021	 { with relative movement between supporting construction and platform}
17/022	{adapted to travel on the bottom (walking
	gears moving dredgers forward step-by-step <u>E02F 9/04</u>)}
17/024	• • . • {shock absorbing means for the supporting construction}
17/025	• • {Reinforced concrete structures (<u>E02B 17/021</u> takes precedence)}
17/027	• • {steel structures (<u>E02B 17/021</u> takes
	precedence)}
17/028	• {Ice-structures}
17/04	 Equipment specially adapted for raising, lowering, or immobilising the working platform relative to the supporting construction (platform lifts in general B66F 7/00)
17/06	• for immobilising, e.g. using wedges or clamping
	rings {(as elements of the raising or lowering means <u>E02B 17/08</u>)}
17/08	• • for raising or lowering
17/0809	• • • {the equipment being hydraulically actuated (outriggers for cranes <u>B66C 23/80</u>)}
17/0818	• • • {with racks actuated by pinions (lifting jacks $\underline{B66F3/02}$ - $\underline{B66F3/06}$)}
17/0827	• • • {with screws and nuts mechanism (climbing jacks with following nut <u>E02B 17/0881</u> ; lifting jacks <u>B66C 3/08</u>)}
17/0836	• • • {with climbing jacks (climbing cranes B66C 23/32; hydraulic lifting jacks B66F 3/24 and subgroups)}
17/0845	• • • { with inflatable clamping rings }
17/0854	• • • { with clamping wedges, eccentric
	clamping devices and so on (catch devices for elevators <u>B66B 5/20</u> , <u>B66B 5/24</u> , <u>B66B 5/26</u>)}
17/0863	• • • { with rack and pawl mechanism}
17/0872	• • • { with locking pins engaging holes or cam surfaces}
17/0881	• • • {with following nuts}
17/089	• • • { with subtentation blocks, feet and so on }
2201/00	Devices, constructional details or methods of
	hydraulic engineering not otherwise provided for
2201/02	• Devices and methods for creating a buffer zone in the water to separate, e.g. salt and sweet water
2201/04	

2201/04 . using old tires for hydraulic engineering

2201/50 • Devices for sequentially discharging constant liquid quantities, e.g. into different irrigation channels