

Fig. 1

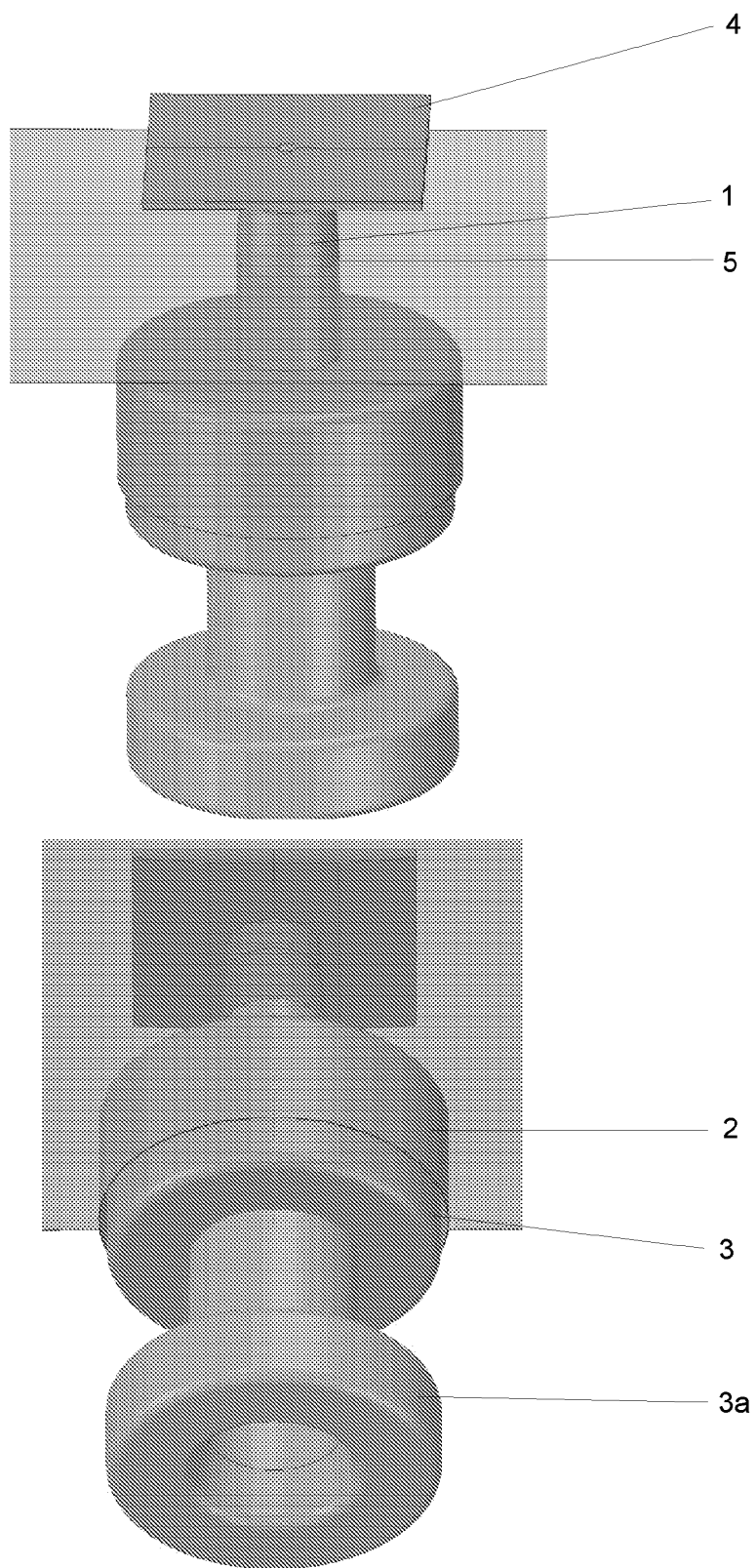
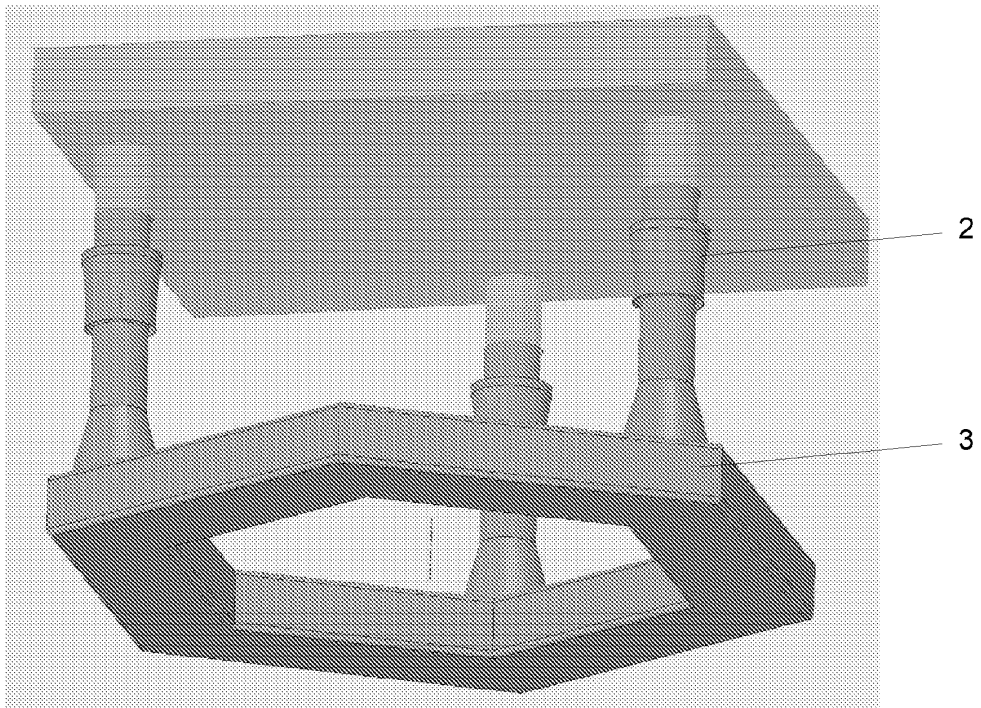
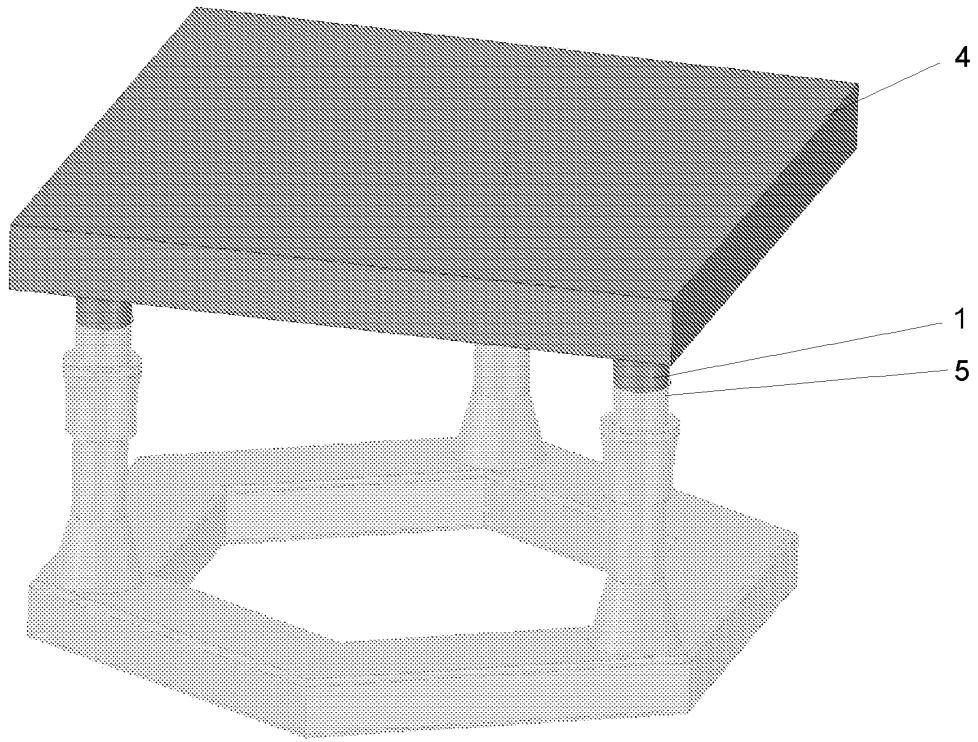


Fig. 2



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Fig. 3

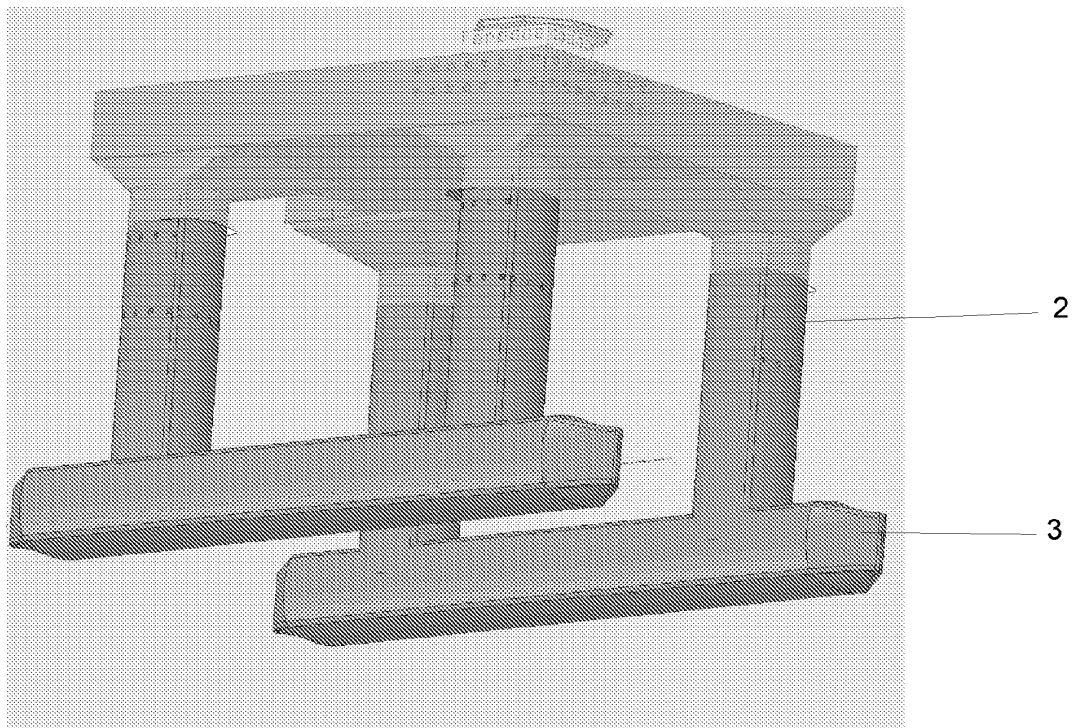
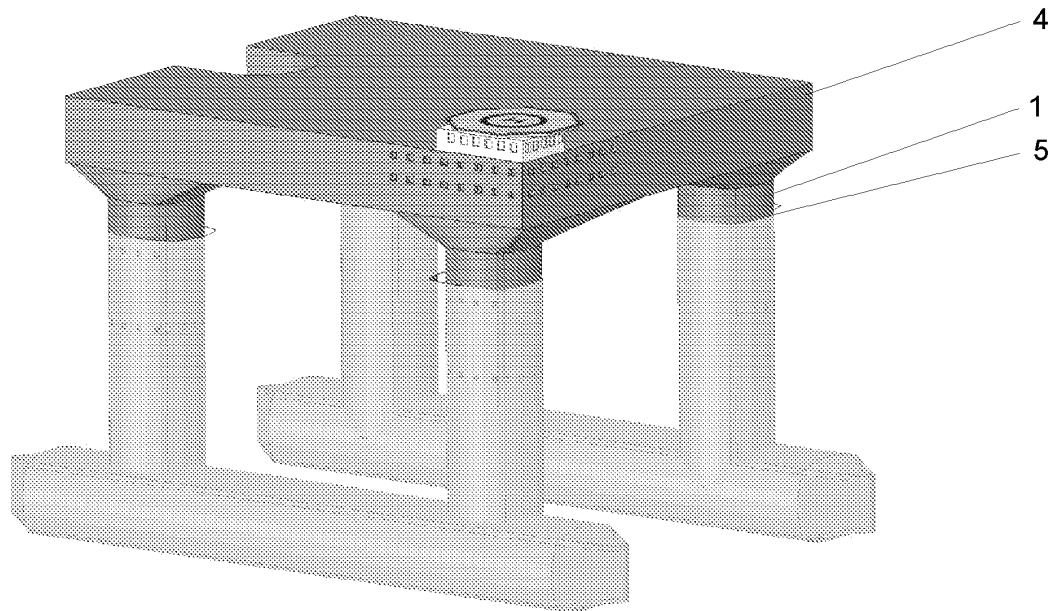


Fig. 4

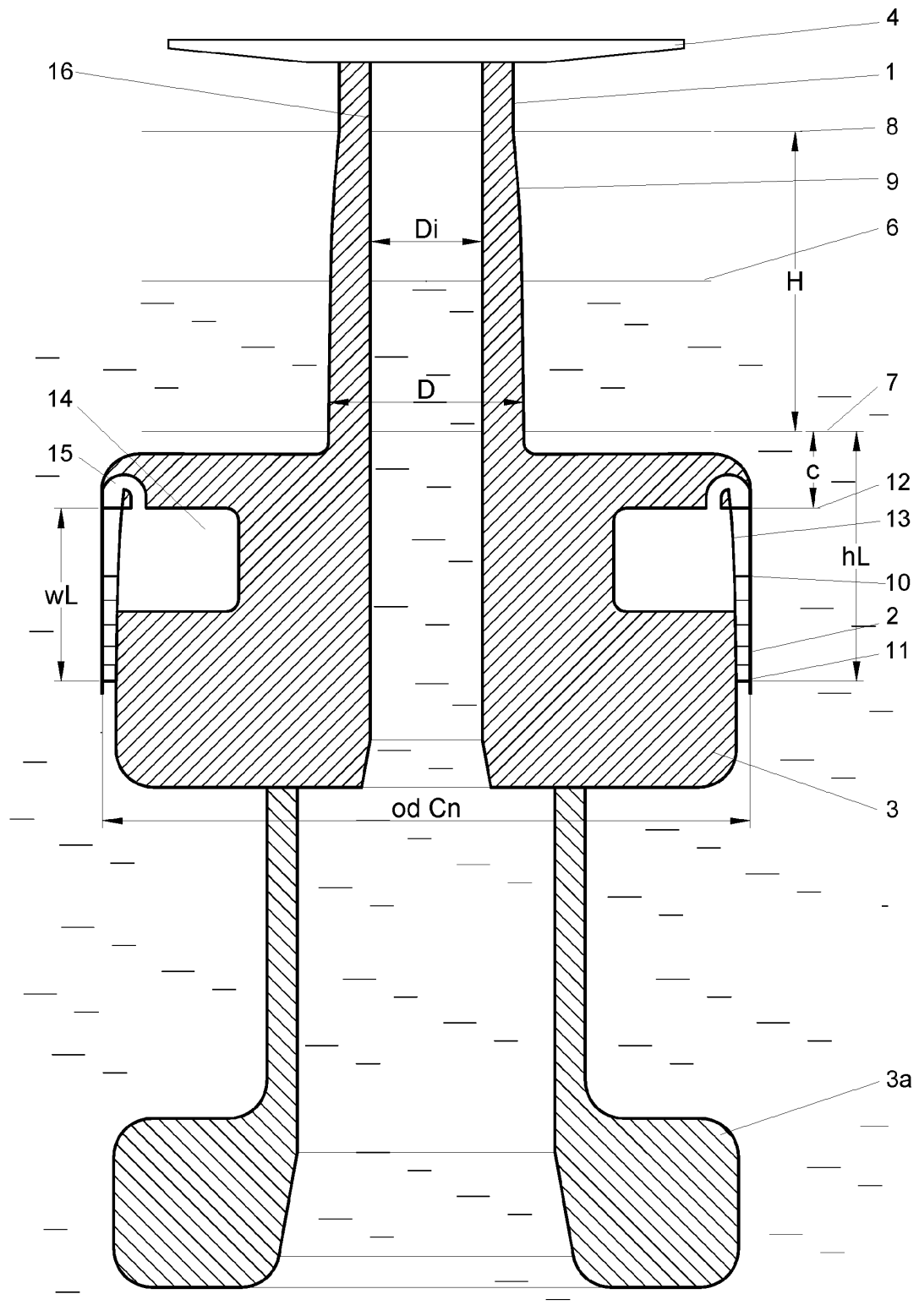


Fig. 5

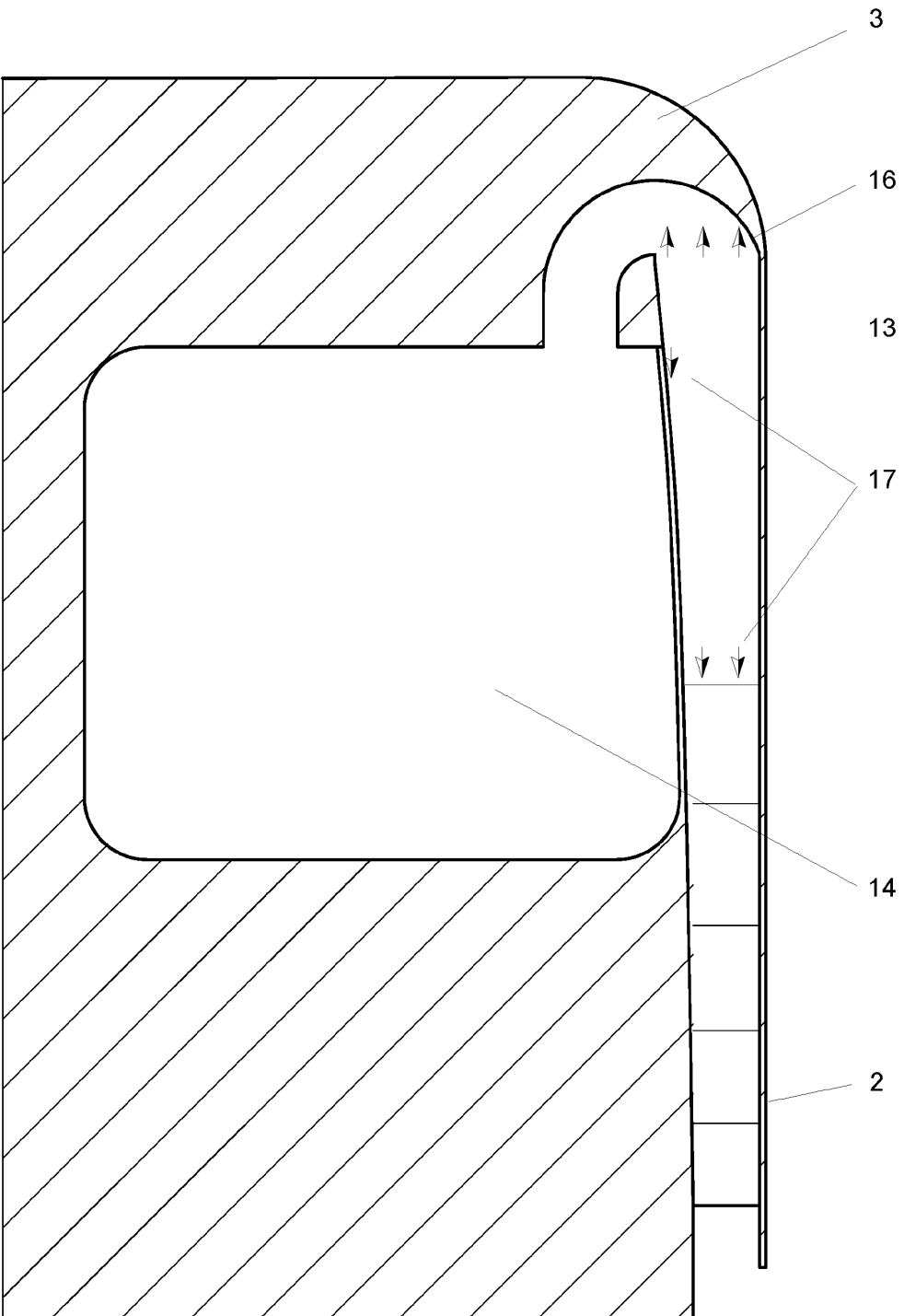
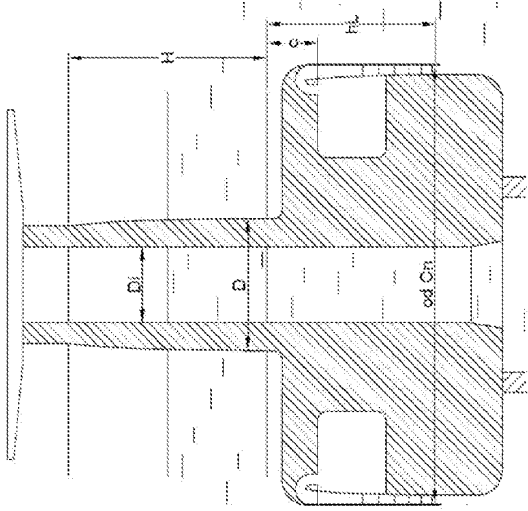


Fig. 6

	A	B	C	D	E	F	G	H	I	J	K
1	D, column	15,6	m								
2	Di, column	9	m								
3	od Cn	48	m								
4	H, max wave height	24	m								
5	hL, lowest level hydrostatic height	20	m								
6	c, clearance	4	m								
7	ΔH , increment	1,00	m								
8	Va L, air volume at hL	10 000,0	m ³								
9	Seawater specific gravity	1,025	kg/L								
10	Gross area column	191,13	m ²								
11	Area Di, column	63,62	m ²								
12	AD, dry area Column	127,5	m ²								
13	ΔV , total heave volume variation	3 060	m ³								
14	PV konstant, Va L x hL	200 000									
15											
16											

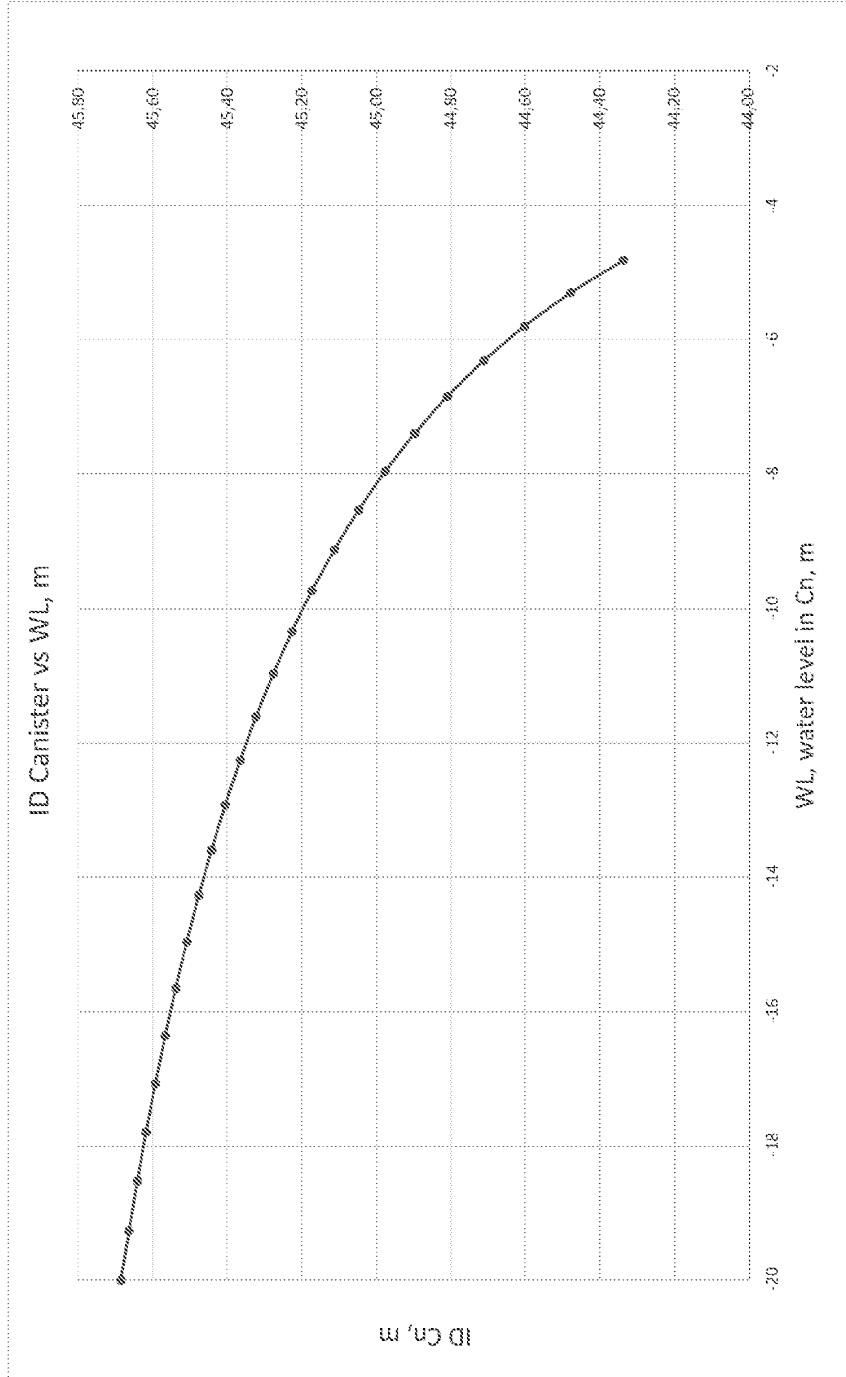


The technical drawing shows a cross-section of a column. It is a rectangular shape with rounded corners and a central vertical channel. Dimensions are indicated with dashed lines and arrows. Labels include: 'D' for the outer diameter, 'Di' for the inner diameter of the central channel, 'od Cn' for the outer diameter of the central channel, 'H' for the total height, 'hL' for the lowest level hydrostatic height, 'c' for clearance, and 'ΔH' for the increment. The drawing is oriented vertically, matching the vertical orientation of the table.

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Fig. 7

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
	Wave, H Level, m	Va, air volume, m3	Air volume increment, m3	Hydrostatic pressure height, h, m	Water volume increment, m3	WL water level in Cn, m	WL change increments, m	Area Cn, m2	Cn id, m	Area Cn increase, m2	Air pressure, kPa	Air pressure increase, kPa	CBE increase, kN	Ballast correction for CBE, m3	AW area correction, m2	OD area, m2	Column OD, m
1																	
2	0	10 000,0		20,0		-2,0		170,4	45,58	0,00	201,11	0,00	0	0,0	0,0	191,1	15,6
3	3,00	9 872,5	-127,5	20,3	127,5	-1,9,3	0,74	171,9	45,66	1,58	203,70	2,60	4,11	0,41	0,409	190,7	15,6
4	2,00	9 745,0	-127,5	20,5	127,5	-1,8,5	0,73	173,5	45,84	3,38	206,37	2,67	4,22	0,42	0,419	190,3	15,6
5	3,00	9 617,4	-127,5	20,8	127,5	-1,7,8	0,73	175,2	45,62	3,68	209,10	2,74	4,59	0,46	0,456	189,9	15,5
6	4,00	9 489,9	-127,5	21,1	127,5	-1,7,1	0,72	177,0	45,59	3,78	211,91	2,81	5,00	0,50	0,497	189,4	15,5
7	5,00	9 362,4	-127,5	21,4	127,5	-1,6,4	0,71	178,9	45,57	3,89	214,80	2,89	5,45	0,54	0,542	188,8	15,5
8	6,00	9 234,9	-127,5	21,7	127,5	-1,5,7	0,71	180,9	45,54	2,01	217,77	2,87	5,96	0,59	0,593	188,2	15,5
9	7,00	9 107,4	-127,5	22,0	127,5	-1,5,0	0,70	183,0	45,51	2,14	220,82	3,05	6,54	0,65	0,650	187,6	15,5
10	8,00	8 979,9	-127,5	22,3	127,5	-1,4,3	0,69	185,3	45,48	2,29	223,95	3,14	7,18	0,71	0,714	186,9	15,4
11	9,00	8 852,3	-127,5	22,6	127,5	-1,3,6	0,68	187,8	45,44	2,45	227,18	3,23	7,91	0,79	0,786	186,1	15,4
12	10,00	8 724,8	-127,5	22,9	127,5	-1,2,9	0,67	190,4	45,40	2,63	230,50	3,32	8,73	0,87	0,868	185,2	15,4
13	11,00	8 597,3	-127,5	23,3	127,5	-1,2,3	0,66	193,2	45,37	2,83	233,92	3,42	9,66	0,96	0,961	184,2	15,3
14	12,00	8 469,8	-127,5	23,6	127,5	-1,1,6	0,65	196,3	45,32	3,04	237,44	3,52	10,72	1,07	1,066	183,2	15,3
15	13,00	8 342,3	-127,5	24,0	127,5	-1,1,0	0,64	199,5	45,28	3,29	241,07	3,63	11,93	1,19	1,187	182,0	15,2
16	14,00	8 214,8	-127,5	24,3	127,5	-1,0,3	0,63	203,1	45,23	3,56	244,81	3,74	13,33	1,33	1,325	180,7	15,2
17	15,00	8 087,2	-127,5	24,7	127,5	-0,9,7	0,62	207,0	45,17	3,87	248,67	3,86	14,93	1,49	1,485	179,2	15,1
18	16,00	7 959,7	-127,5	25,1	127,5	-0,9,1	0,60	211,2	45,11	4,22	252,85	3,98	16,80	1,67	1,670	177,5	15,0
19	17,00	7 832,2	-127,5	25,5	127,5	-0,8,5	0,59	215,8	45,05	4,61	256,77	4,11	18,97	1,89	1,886	175,6	15,0
20	18,00	7 704,7	-127,5	26,0	127,5	-0,8,0	0,58	220,9	44,98	5,06	261,02	4,25	21,51	2,14	2,139	173,5	14,9
21	19,00	7 577,2	-127,5	26,4	127,5	-0,7,4	0,56	226,4	44,90	5,58	265,81	4,39	24,51	2,44	2,437	171,0	14,8
22	20,00	7 449,7	-127,5	26,8	127,5	-0,6,8	0,55	232,6	44,81	6,18	269,95	4,54	28,06	2,79	2,791	168,3	14,6
23	21,00	7 322,1	-127,5	27,3	127,5	-0,6,3	0,53	239,5	44,71	6,87	274,65	4,70	32,32	3,21	3,214	165,0	14,5
24	22,00	7 194,6	-127,5	27,8	127,5	-0,5,8	0,52	247,2	44,60	7,69	279,52	4,87	37,45	3,72	3,725	161,3	14,3
25	23,00	7 067,1	-127,5	28,3	127,5	-0,5,3	0,50	255,8	44,48	8,66	284,56	5,04	43,70	4,35	4,346	157,0	14,1
26	24,00	6 939,6	-127,5	28,8	127,5	-0,4,8	0,48	265,7	44,34	9,83	289,78	5,23	51,38	5,11	5,110	151,9	13,9
27		3 060,4	-3 060,4	8,8	3060,4	-15,2	15,2	95,3,2	-1,3,5	95,32	938,69	938,69	394,35	39,28	39,3	-39,3	-1,7

Fig. 8



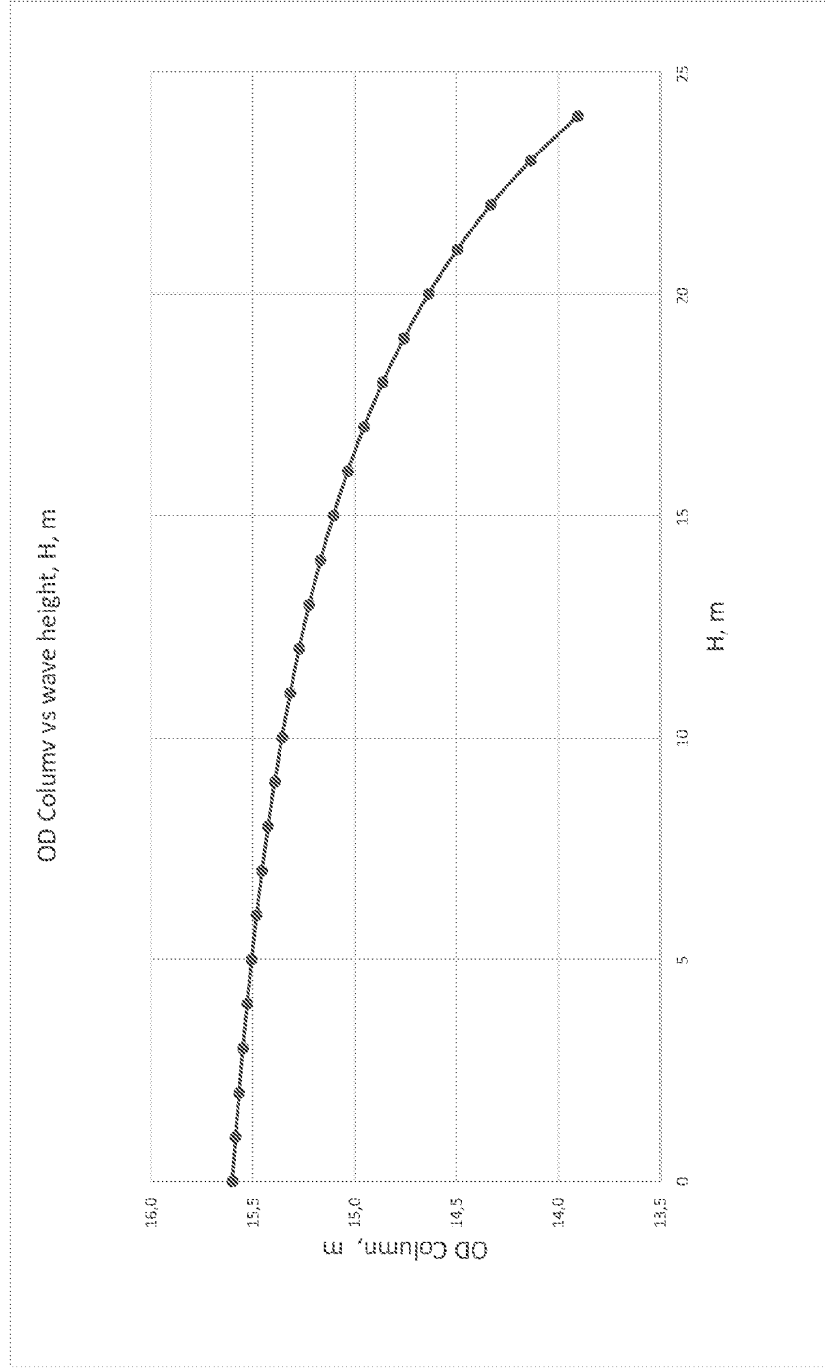
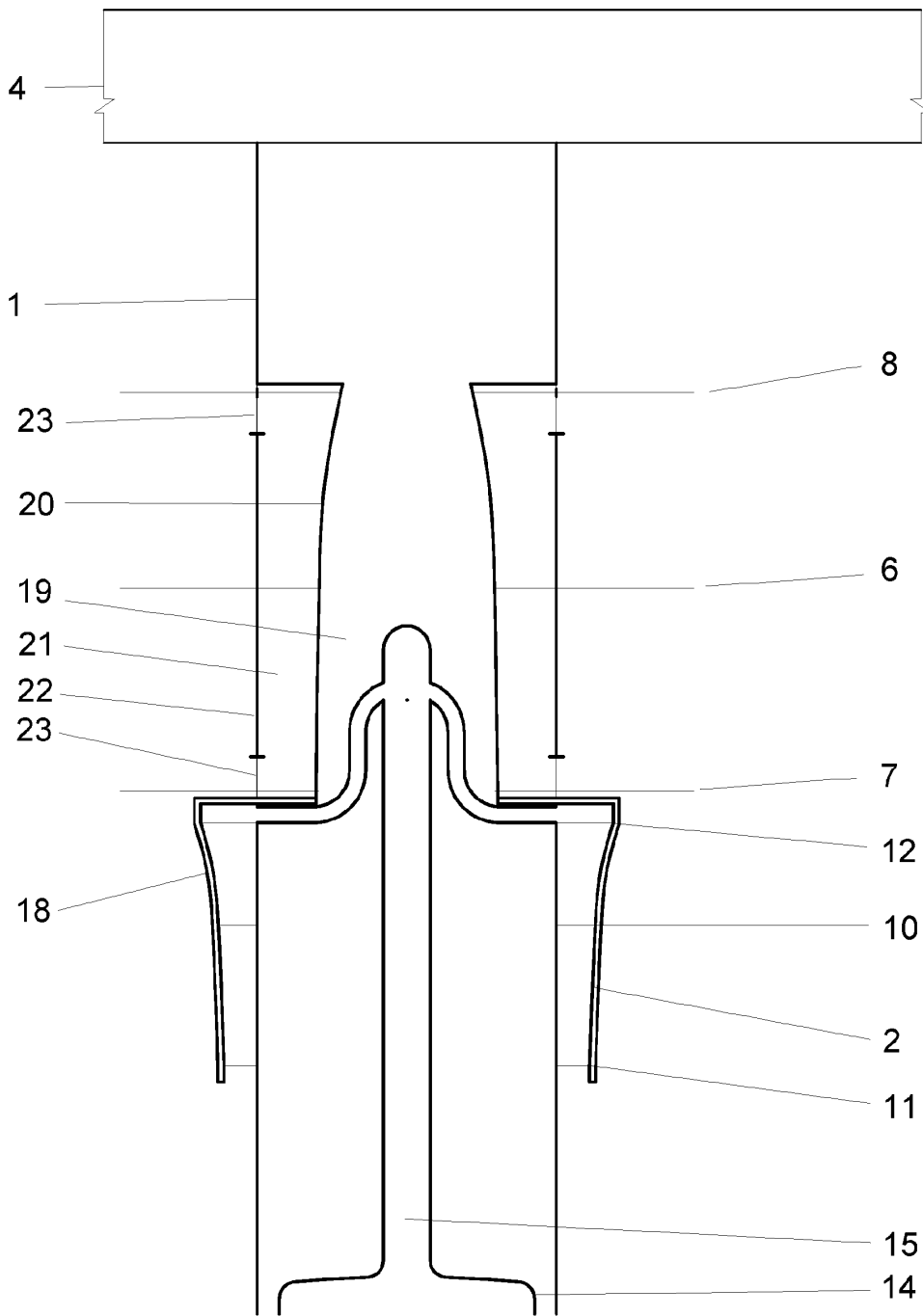
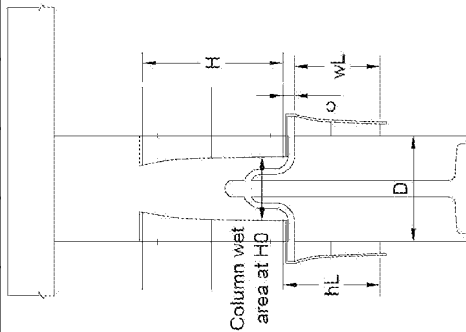


Fig. 10



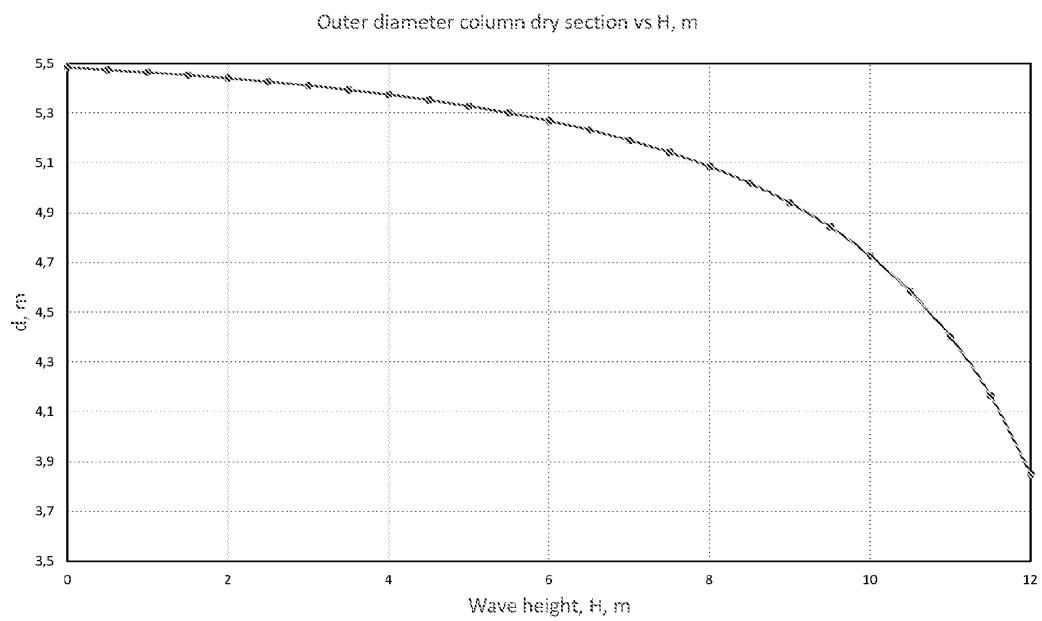
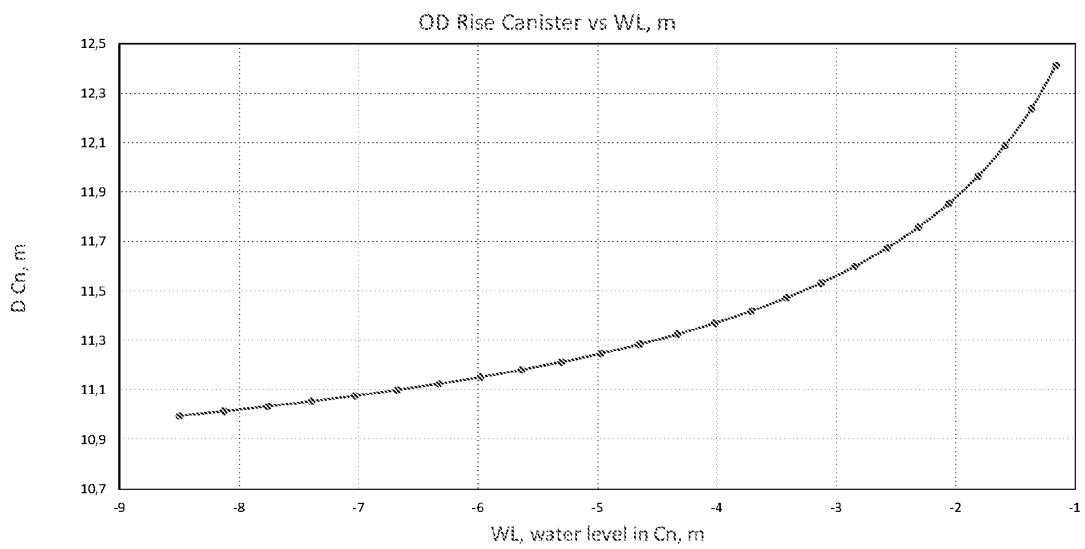
	A	B	C	D	E	F	G	H
1	D, column	9	m					
2	Column wet area at H 0	40	m ²					
3	H, max wave height	12	m					
4	hL, lowest level hydrostatic height	8,5	m					
5	c, clearance	1	m					
6	ΔH , increment	0,50	m					
7	Va L, air volume at hL	800,0	m ³					
8	Seawater specific gravity	1,025	kg/L					
9	Gross area column	63,62	m ²					
10	Ad, dry area Column	23,6	m ²					
11	ΔV , total heave volume variation	283	m ³					
12	PV konstant, Va L x hL	6 800						
13								



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Fig. 12

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
	Wave, H Level, m	Va, air volume, m3	Air volume increment, m3	Hydrostatic pressure height, h, m	Water volume increment, m3	WL, water level in Cn, m	WL change increments, m	Area Cn, m2	Cn D, m	Air Cn increase, m2	Air pressure, kPa	Air pressure increase, kPa	CBE increase, kN	Ballast correction for CBE, m3	AW area correction, m2	AW area, m2	AD, column dry area, m2	Column dry d, m
1																		
2	2	800.0		8.5		-8.5		31.4	11.80	0.00	85.47	0.00	0	0.0	0.0	40.0	23.6	5.464
3	2.50	788.2	-11.8	8.6	11.8	-8.1	0.4	31.7	11.82	0.23	86.75	1.28	0.43	0.04	0.085	40.1	23.5	5.474
4	3	776.4	-11.8	8.8	11.8	-7.6	0.4	32.0	11.83	0.53	88.07	1.32	0.44	0.04	0.087	40.2	23.4	5.484
5	3.50	764.6	-11.8	8.9	11.8	-7.1	0.4	32.4	11.86	0.86	89.43	1.36	0.48	0.05	0.095	40.3	23.3	5.492
6	4.00	752.8	-11.8	9.0	11.8	-6.7	0.4	32.8	11.88	1.20	90.83	1.40	0.53	0.05	0.105	40.4	23.2	5.502
7	4.50	741.0	-11.8	9.2	11.8	-6.2	0.4	33.2	11.90	1.54	92.28	1.45	0.59	0.06	0.118	40.5	23.1	5.512
8	5.00	729.1	-11.8	9.3	11.8	-5.7	0.4	33.6	11.93	1.88	93.77	1.49	0.66	0.07	0.131	40.6	23.0	5.521
9	5.50	717.3	-11.8	9.5	11.8	-5.2	0.3	34.1	11.95	2.22	95.32	1.54	0.73	0.07	0.146	40.8	22.8	5.534
10	6.00	705.5	-11.8	9.6	11.8	-4.7	0.3	34.6	11.98	2.56	96.91	1.60	0.82	0.08	0.163	40.9	22.7	5.544
11	6.50	693.7	-11.8	9.8	11.8	-4.2	0.3	35.2	12.01	2.90	98.56	1.65	0.92	0.09	0.183	41.1	22.5	5.553
12	7.00	681.9	-11.8	10.0	11.8	-3.7	0.3	35.8	12.05	3.24	100.27	1.71	1.03	0.10	0.205	41.3	22.3	5.566
13	7.50	670.1	-11.8	10.1	11.8	-3.2	0.3	36.4	12.09	3.58	102.04	1.77	1.17	0.12	0.232	41.5	22.1	5.583
14	8.00	658.3	-11.8	10.3	11.8	-2.7	0.3	37.1	12.13	3.92	103.87	1.83	1.32	0.13	0.263	41.8	21.8	5.599
15	8.50	646.5	-11.8	10.5	11.8	-2.2	0.3	37.9	12.17	4.26	105.76	1.90	1.51	0.15	0.299	42.1	21.5	5.622
16	9.00	634.7	-11.8	10.7	11.8	-1.7	0.3	38.8	12.21	4.60	107.73	1.97	1.72	0.17	0.343	42.5	21.2	5.652
17	9.50	622.9	-11.8	10.9	11.8	-1.2	0.3	39.8	12.25	4.94	109.78	2.04	1.98	0.20	0.394	42.9	20.8	5.682
18	10.00	611.1	-11.8	11.1	11.8	-0.7	0.3	40.9	12.29	5.28	111.90	2.12	2.29	0.23	0.455	43.3	20.3	5.712
19	10.50	599.3	-11.8	11.3	11.8	-0.2	0.3	42.1	12.33	5.62	114.10	2.20	2.67	0.27	0.531	43.8	19.8	5.742
20	11.00	587.4	-11.8	11.6	11.8	0.3	0.3	43.4	12.37	5.96	116.40	2.29	3.13	0.31	0.622	44.5	19.2	5.772
21	11.50	575.6	-11.8	11.8	11.8	0.8	0.3	45.0	12.41	6.30	118.78	2.39	3.70	0.37	0.735	45.2	18.4	5.802
22	12.00	563.8	-11.8	12.1	11.8	1.3	0.3	46.7	12.45	6.64	121.27	2.49	4.41	0.44	0.876	46.1	17.5	5.832
23	12.50	552.0	-11.8	12.3	11.8	1.8	0.2	48.8	12.49	6.98	123.86	2.59	5.30	0.53	1.055	47.1	16.5	5.862
24	13.00	540.2	-11.8	12.6	11.8	2.3	0.2	51.2	12.53	7.32	126.57	2.71	6.46	0.64	1.285	48.4	15.2	5.892
25	13.50	528.4	-11.8	12.9	11.8	2.8	0.2	54.0	12.57	7.66	129.40	2.83	7.97	0.79	1.585	50.0	13.6	5.922
26	14.00	516.6	-11.8	13.2	11.8	3.3	0.2	57.4	12.61	8.00	132.36	2.96	9.98	0.99	1.985	52.0	11.6	5.952
27		283.4	-283.4	4.7	283.4	-7.3	7.3	283.4	3.42	283.42	36.89	46.33	58.73	5.98	12.0	32.0	-12.3	-5.634

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Fig. 13



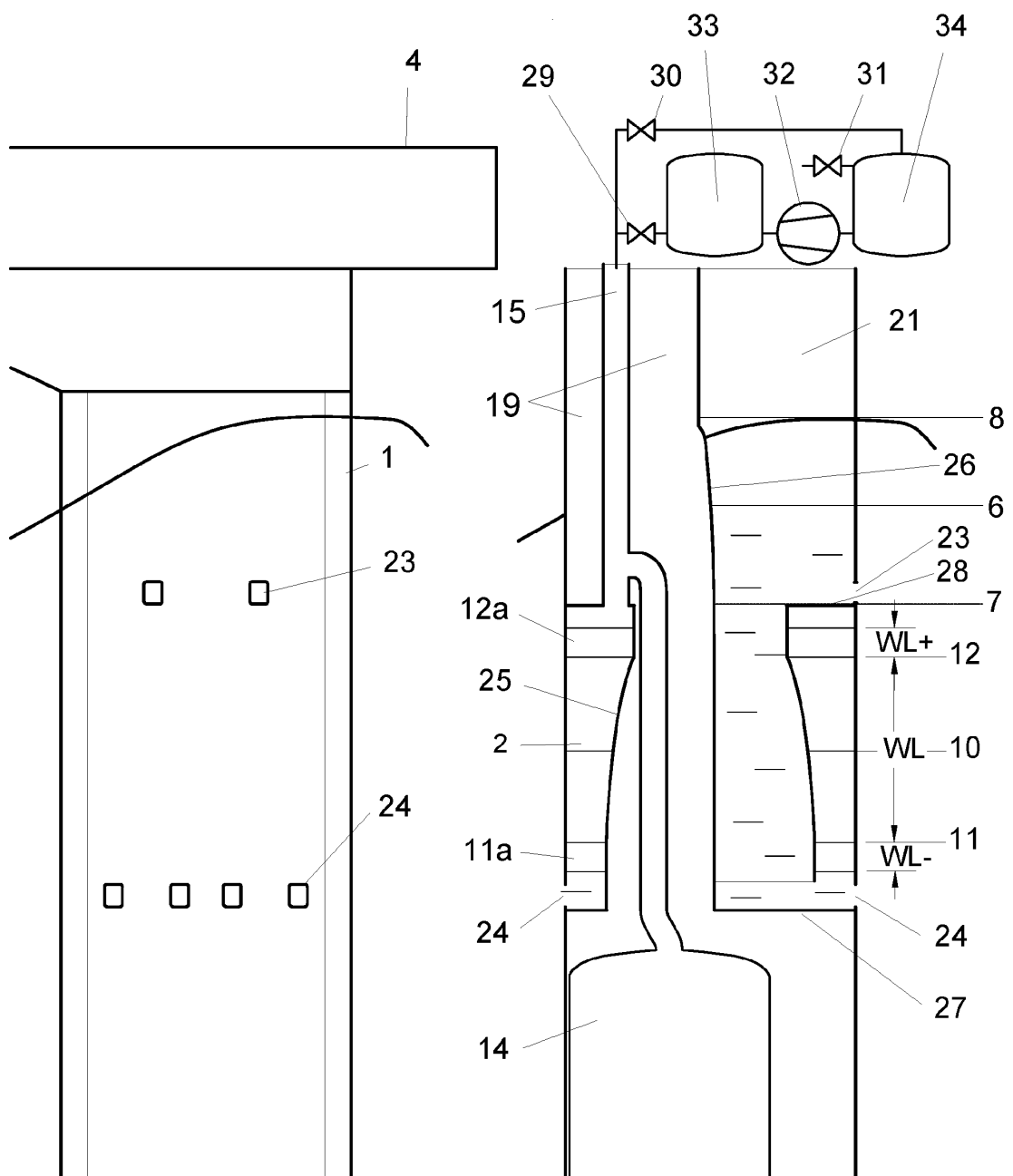


Fig. 15

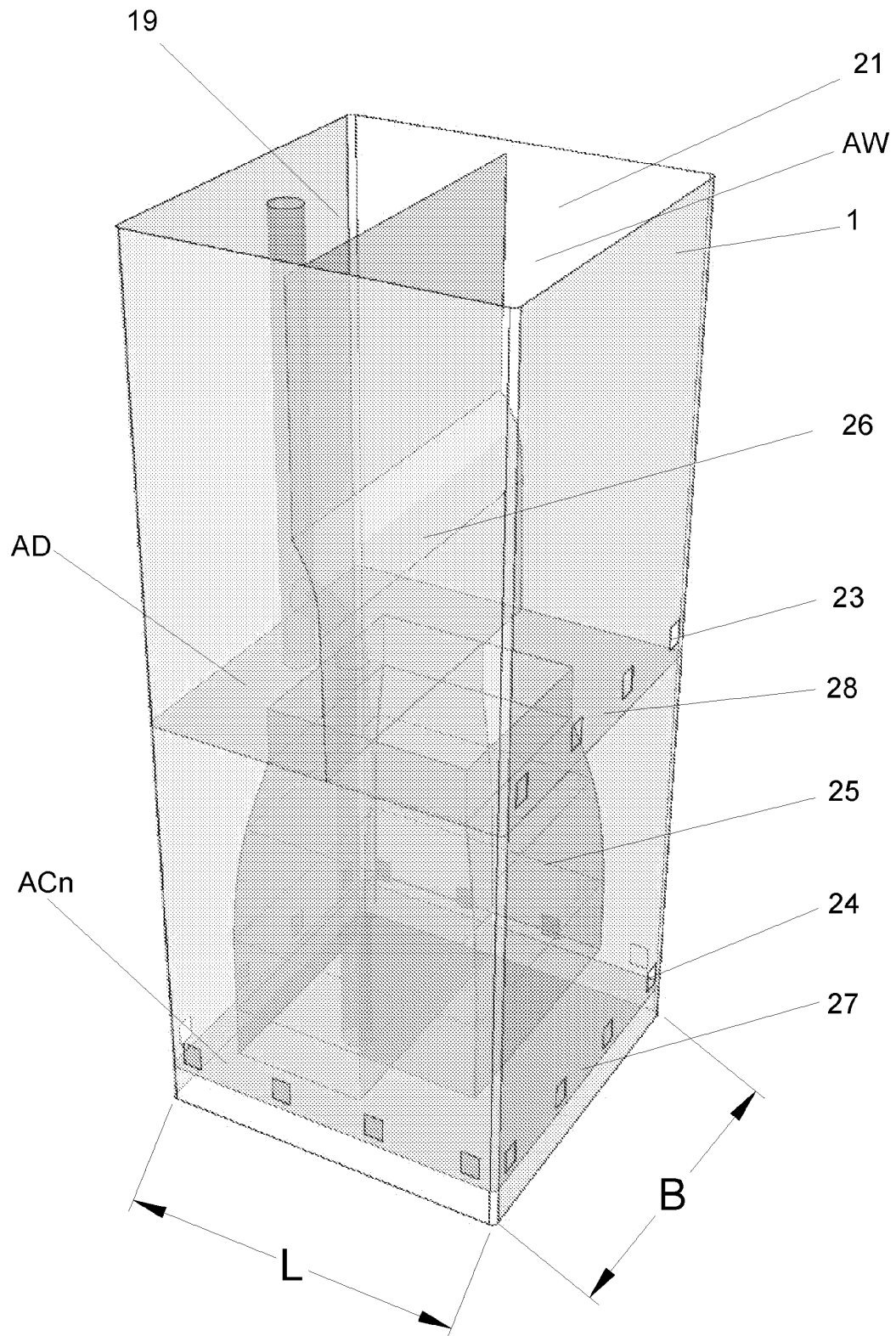
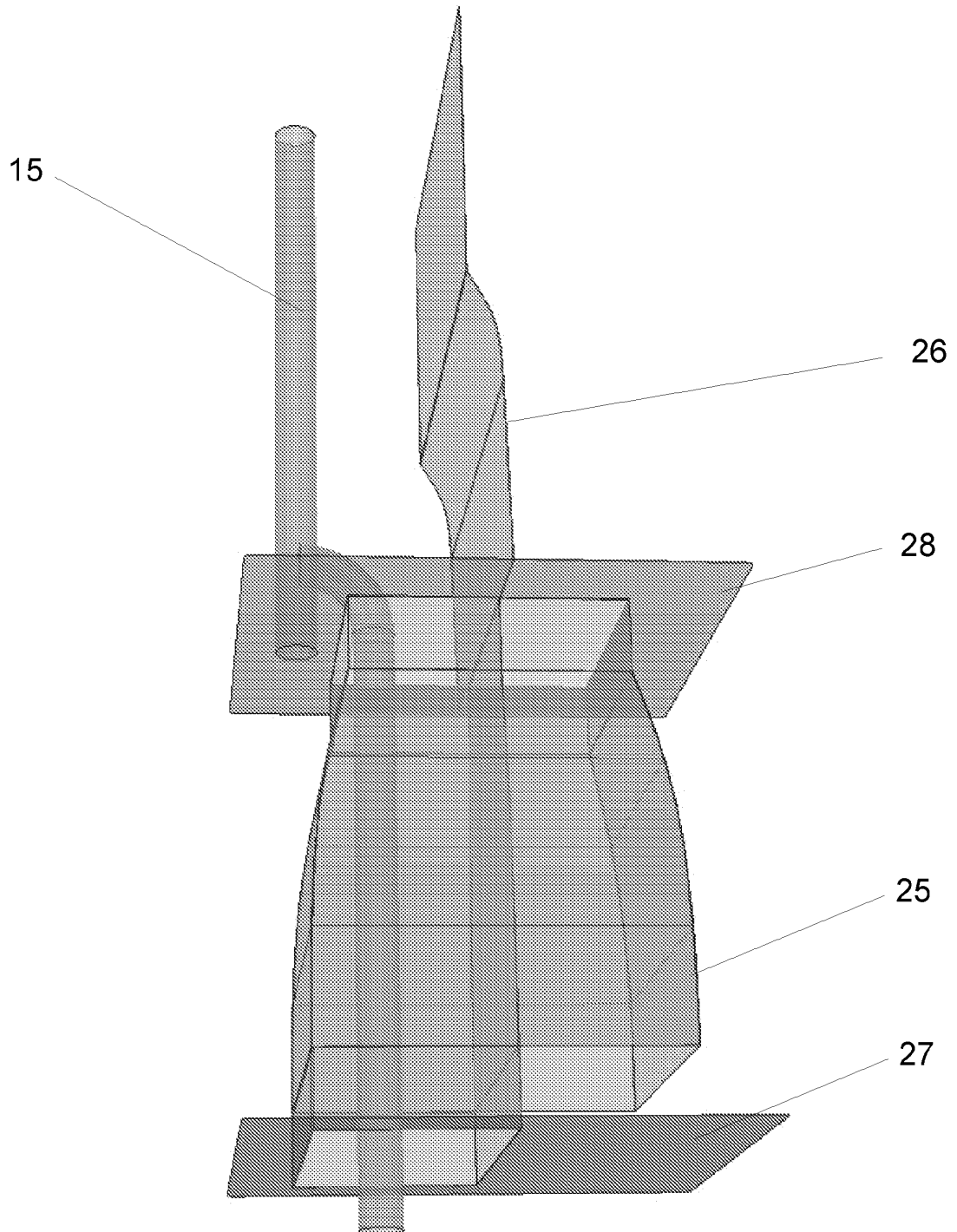
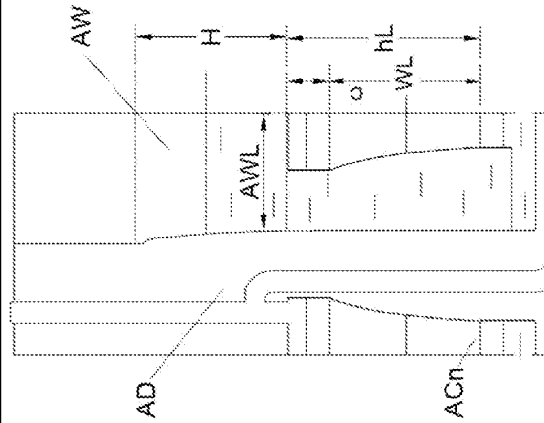


Fig. 16



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Fig. 17

	A	B	C	D	E	F	G	H	I	J
1	1	L, side column	13	m						
2	2	B, side column	13	m						
3	3	Column wet area, AW	95,00	m ²						
4	4	H, max wave height	12	m						
5	5	hL, lowest level hydrostatic height	8,9	m						
6	6	c, clearance	1	m						
7	7	ΔH , increment	0,50	m						
8	8	Va L, air volume at hL	2 800,0	m ³						
9	9	Seawater specific gravity	1,025							
10	10	Gross area column	169,00	m ²						
11	11	AD, dry area Column	74,0	m ²						
12	12	ΔV , total heave volume variation	888	m ³						
13	13	pV konstant, Va L x hL	24 920							
14	14	Area Cn at hL	97,16	m ²						
15										
16										



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Fig. 18

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
	Wave, H Level, m	Va, air volume, m3	Air volume increment, m3	Hydrostatic pressure height, h, m	Water volume increment, m3	WL water level in Cn, m	WL change increments, m	ACn, area Cn, m2	Cn B and L, m	Area Cn increase, m2	Air pressure, kPa	Air pressure increase, kPa	CBE increase, kN	Ballast correction for CBE, m3	AW area correction, m2	AW area, m2	AWL side wall length, m
1	1																
2	2	2 800.0		8.9		-8.9	0.38	97.2	8.48	0.00	89.49	8.80	0	0.0		95.0	7.308
3	3	2 763.0	-37.0	9.0	37.0	-6.5	0.38	97.2	8.48	0.00	90.89	3.20	0.0	0.00	0.000	95.00	7.308
4	4	2 726.0	-37.0	9.1	37.0	-8.1	0.38	97.2	8.48	0.00	91.32	1.23	0.0	0.00	0.000	95.00	7.308
5	5	2 689.0	-37.0	9.3	37.0	-7.8	0.37	98.0	8.43	0.83	93.19	3.26	1.1	0.10	0.001	95.00	7.308
6	6	2 652.0	-37.0	9.4	37.0	-7.4	0.37	98.9	8.37	0.88	94.49	1.30	1.1	0.11	0.001	95.00	7.308
7	7	2 615.0	-37.0	9.5	37.0	-7.0	0.37	99.8	8.32	0.94	95.82	1.34	1.3	0.12	0.001	95.00	7.308
8	8	2 578.0	-37.0	9.7	37.0	-6.7	0.36	100.8	8.26	0.99	97.20	1.38	1.4	0.14	0.001	95.00	7.308
9	9	2 541.0	-37.0	9.8	37.0	-6.3	0.36	101.9	8.19	1.06	98.61	1.42	1.5	0.15	0.002	95.00	7.308
10	10	2 504.0	-37.0	10.0	37.0	-6.0	0.36	103.0	8.12	1.13	100.07	1.46	1.6	0.16	0.002	95.00	7.308
11	11	2 467.0	-37.0	10.1	37.0	-5.6	0.35	104.2	8.05	1.21	101.57	1.50	1.8	0.18	0.002	95.00	7.308
12	12	2 430.0	-37.0	10.3	37.0	-5.3	0.35	105.5	7.87	1.28	103.12	1.55	2.0	0.20	0.002	95.00	7.308
13	13	2 393.0	-37.0	10.4	37.0	-4.9	0.34	106.9	7.88	1.39	104.71	1.59	2.2	0.22	0.002	95.00	7.308
14	14	2 356.0	-37.0	10.6	37.0	-4.6	0.34	108.4	7.79	1.49	106.36	1.64	2.4	0.24	0.003	95.00	7.308
15	15	2 319.0	-37.0	10.7	37.0	-4.2	0.33	110.0	7.68	1.60	108.05	1.70	2.7	0.27	0.003	95.00	7.308
16	16	2 282.0	-37.0	10.9	37.0	-3.9	0.33	111.7	7.57	1.73	109.81	1.75	3.0	0.30	0.003	95.00	7.308
17	17	2 245.0	-37.0	11.1	37.0	-3.6	0.32	113.6	7.44	1.88	111.62	1.81	3.4	0.34	0.004	95.00	7.308
18	18	2 208.0	-37.0	11.3	37.0	-3.3	0.31	115.6	7.31	2.04	113.49	1.87	3.8	0.38	0.004	95.00	7.308
19	19	2 171.0	-37.0	11.5	37.0	-3.0	0.31	117.8	7.15	2.22	115.42	1.99	4.3	0.43	0.004	95.00	7.308
20	20	2 134.0	-37.0	11.7	37.0	-2.7	0.30	120.3	6.98	2.43	117.42	2.00	4.9	0.48	0.005	95.01	7.308
21	21	2 097.0	-37.0	11.9	37.0	-2.4	0.29	122.9	6.79	2.67	119.49	2.07	5.5	0.55	0.006	95.01	7.308
22	22	2 060.0	-37.0	12.1	37.0	-2.1	0.29	125.9	6.57	2.94	121.64	2.15	6.3	0.63	0.007	95.01	7.308
23	23	2 023.0	-37.0	12.3	37.0	-1.8	0.28	129.1	6.32	3.25	123.86	2.22	7.2	0.72	0.008	95.01	7.308
24	24	1 986.0	-37.0	12.5	37.0	-1.5	0.27	132.7	6.02	3.62	126.17	2.31	8.3	0.83	0.009	95.01	7.308
25	25	1 949.0	-37.0	12.8	37.0	-1.3	0.26	136.8	5.68	4.05	128.57	2.40	9.7	0.96	0.010	95.01	7.308
26	26	1 912.0	-37.0	13.0	37.0	-1.0	0.25	141.3	5.26	4.55	131.05	2.49	11.3	1.13	0.012	95.01	7.308
27		888.0	-888.0	4.1	888.0	-7.9	8.25	44.2	3.22	44.17	41.56	41.56	87	3.6	0.051		-0.081

Fig. 19

