

# Spar, or Awning Dk. IRON OR STEEL STEAMER.

No. 1322.

Port of Copenhagen Date of completion of Report 15<sup>th</sup> March 1900 Received at London Office Yes  
Survey held at Copenhagen Date, First Survey 16<sup>th</sup> October 1898 Last Survey 10<sup>th</sup> March 1900  
on the Steel Steamer "Manchuria" Rig 2 pole masts

TONNAGE under  
Tonnage Deck...  
Do. between Tonnage Dk.  
and 3rd, 4th, Spar or  
Awning Dk.  
Total under Upper Dk. 544.65  
Do. of Poop 84.29  
Do. of Bridge House  
Do. of Forecasts 73.33  
Do. of Houses on Deck 237.82  
Do. of excess of Hatchways 15.82  
Do. above Crown of  
Engine Room...  
Gross Tonnage 5709.91  
Less Crew Space 121.08  
Less above Crown of  
Engine Room...  
TONNAGE FOR FEES... 5588.83  
Less Engine Room 1827.17  
Less Navigation Spaces 53.50  
Register Tonnage  
as cut on Beam... 3708.16

SPAR, AWNING OR PART AWNING-DECKED VESSEL,  
or a Vessel having a continuous Shade Deck.

CLASS 100 A1 Spardeck

Half Breadth (moulded) 24.67  
Depth from upper part of keel to top of Main Deck Beams 23.50  
Girth of Half Midship Frame (as per Rule) 43.58  
1st Number 91.75  
Length 408.17  
2nd Number 37450  
Proportions—Breadths to Length 8.27  
Depths to Length—Main Deck to top of Keel (12.97) 17.37  
Destined Voyage Hibau

Master H. SchoningYear of Appointment 1900Built at CopenhagenWhen built 1900 Launched 2<sup>nd</sup> December 1899By whom built Antieselshuset, Burmeister & Wain'sOwners Russian East Asiatic S. S. Co. Ltd.

Managers

Residence

Port belonging to RigaIf Surveyed while Building, Afloat, or in Dry Dock While Building

LENGTH on Deck 408 Feet. 2 Inches. BREADTH—Feet. 49 Inches. 4 Moulded. DEPTH, top of Floors to Spar or Awn. Dk. Beams 27 Feet. 9 Inches. 19 Do. Main Deck Beams 19 Feet. 9 Inches. 19 Do. Power of Engines 591 Horse. No. of Decks with flat laid 2 No. of Tiers of Beams 2

Dimensions of Ship per Register, Length breadth depth. Spar or Awn. Dk. Moulded depth, ft. 22 ins. 6 To Main Dk. Round up of Beam, Main Dk. 12 ins.

## FRAMING.

	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	Inches per Rule Or as Approved.	20ths per Rule Or as Approved.
FRAME, Angles, or L- or E Bars, for $\frac{1}{2}$ length amidships	6	3 1/2	3 1/2	11	6	3 1/2
Do. for $\frac{1}{2}$ at each end	6	3 1/2	8	6	3 1/2	8
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	9-8	3 1/2	3 1/2	9-8
Distance of Frames from moulding edge to moulding edge, all fore and aft	24		24			
REVERSED FRAME, Angles	4	3 1/2	9	3 1/2	3 1/2	9
DEEP FRAMING, depth of girder						
FLOORS, depth and thickness of Floor Plate at mid-line for $\frac{1}{2}$ length amidships						
Do. in way of Engines and Boilers						
Do. thickness at the ends of vessel						
Do. depth at $\frac{1}{2}$ the half-bdth. as per Rule						
Do. height extended at the Bilges						
FLOORS & BRACKETS, in Cell Dble Bottoms	44		8	44		8
Distance apart	24		24			
CENTRE GIRDER, in Double bottom, depth and thickness	44		10	44		10
Do. Angles, Top	4	4	9	4	4	9
Do. Angles, Bottom	6 1/2	4 1/2	10-9	6 1/2	4 1/2	10-9
SIDE GIRDERS, number and thickness	2	3 1/2	8	3 1/2	3 1/2	8
Do. Angles	3 1/2	3 1/2	8	3 1/2	3 1/2	8
MARGIN PLATE, depth (exclusive of flange) and thickness	32		9	31		9
Do. Angles	4	4	9	4	4	9
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	67		10-8	48		10-8
Do. thickness in Engine and Boiler space		10 1/2	11	10 1/2	11	
BEAMS, Spar or Awning Deck, Single Angle, Bulb Angle, Plate or Tee Bulb Channels	10	3 1/4	3 1/4	10	3 1/4	3 1/4
Do. Angles on upper edge						
Do. Average space	48		48			
BEAMS, Main Deck, Single Angle, Bulb Angle, Plate or Tee Bulb Channels	12	3 1/2	3 1/2	14	3 1/2	3 1/2
Do. Angles on upper edge						
Do. Average space	48		48			
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb Channels						
Do. Angles on upper edge						
Do. Average space						
BEAMS, Hold, or Orlop, Plate or Tee Bulb Channels	12	3 1/2	3 1/2	14	3 1/2	3 1/2
Do. Angles on upper edge						
Do. Average space	48		48			
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb Channels	8	5	9	8	5	9
Do. Angles on upper edge						
Do. Average space	48		48			
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb Channels	8	5	9	8	5	9
Do. Angles on upper edge						
Do. Average space	48		48			
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb Channels	10	5 1/4	9	10	5 1/4	9
Do. Angles on upper edge						
Do. Average space	48		48			
PILLARS, In 'tween Deck, size and spacing	2 1/8	48	2 1/8	48		
Do. Hold	4 1/8	48	4 1/8	48		
Do. Quarter, 'tween Dks., "	2 1/8	96	2 1/8	96		
Do. in Hold	4 1/8	96	4 1/8	96		
WEB-FRAMES, In Fore Body, No. and spacing	12		12			
Do. No. of Side Stringers	18		18			
Do. brdth. & thickness	18		18			
WEB-FRAMES, In E. & B. Space, No. & spacing	8		8			
Do. No. of Side Stringers	18		18			
Do. brdth. & thickness	18		18			
WEB-FRAMES, In After Body, No. and spacing	11		11			
Do. No. of Side Stringers	18		18			
Do. brdth. & thickness	18		18			
Size of Angles or Tee Bars to Web Frames	6 1/2	4 1/2	12	6 1/2	4 1/2	12
BRACKET PLATES to Stringers between Web Frames, depth and thickness	18		8	18		8

## FORGINGS AND CASTINGS.

	Inches in Ship.	Inches per Rule Or as Approved.
KEEL, Bar or Side Plates, depth and thickness	11	3 1/8
STEM, moulding and thickness	11	3 1/8
STERN-POST for Rudder do. do. Cast steel	11 1/8	7 1/2
Do. for Propeller	11 1/4	7 1/8
MAIN PIECE of Rudder, diameter at head do. at heel	10	10
RUDDER, how constructed Cast steel with single plate 1 1/4" - 6 pintles		
Can the Rudder be unshipped afloat? Yes - and Rudderhead with horizontal joint		
KEELSONS AND STRINGERS.		
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate		
Do. Rider Plate		
Do. Bulb Plate to Intercoastal Keelson		
Do. Horizontal Plates on Floors		
Do. Angles		
SIDE KEELSON, Angles		
Do. Bulb or Plate above floors, for lng.		
Do. Intercoastal Plate, for length		
Do. Attached to outside plating with Angle		
BILGE KEELSON, Angles		
Do. Bulb or Plate above floors, for lng.		
Do. Intercoastal Plate, for length		
Do. Attached to outside plating with Angle		
BILGE STRINGER Angles		
Do. Bulb Plate, for length		
Do. Intercoastal Plate, for length		
Do. Attached to outside plating with Angle		
SIDE STRINGER Angles		
Do. Bulb or Intercoastal Plate, for lng.		
Do. Attached to outside plating with Angle		
Spar, or Awning Deck Stringer Plates, breadth and thickness	63-48	12-8
Do. Angle on ditto	4	4
Do. Tie Plates, fore and aft outside Hatchways	4	4
Do. Diagonal Tie Plates, No. of prs.	2	2
Deck, * Iron or Steel, for whole lng.		
Wood Deck, Material and thickness	5	3 1/2
Main Deck Stringer Plate, breadth & thickness	68	4
Do. Angles on ditto, No. 1 & shell	2	2
Do. Tie Plates, outside Hatchways increased	2	2
Deck, * Iron or Steel, for whole lng.		
Wood Deck, Material and thickness	5	3 1/2
Lower Deck Stringer Plates, br'dth & thickn's		
Do. Angles on ditto, No.		
Do. Tie Plates, outside Hatchways		
Do. Deck, * Material and thickness		
Hold, or Orlop Stringer Plate, br'dth & thckn's		
Do. Angles on ditto, No.		
Do. Tie Plates, outside Hatchways		
Do. Deck, Material and thickness		
Poop Deck Stringer Plate, breadth & thickness	48-37	8-7
Do. Angles on ditto	3 1/2	3 1/2
Do. Tie Plates	2 1/2	2 1/2
Do. Deck, * Material and thickness	5	3
Bridge Deck Stringer Plate, br'dth & thickness		
Do. Angle on ditto		
Do. Tie Plates		
Do. Deck, Material and thickness		
Forecastle Deck Stringer Plate, br'dth & th'kns	48-38	8-7
Do. Angle on ditto	3 1/2	3 1/2
Do. Tie Plates	2 1/2	2 1/2
Do. Deck, Material and thickness	5	3

\* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.

BULKHEADS.	Number.		Thickness.	STIFFENERS.			Single or Double Frames.	Height up.
	In Vessel.	Per Rule.		Horizontal.	Vertical.	Spacing.		
W. T. BULKHEADS	6	6	7-6	9 x 3/2 x 2	6 x 3/2 x 9	18/30	double	Spardeck
PARTITION								
LONGITUDINAL,,								

Are the outside Plates doubled two spaces of Frames in length? Yes



PLATING.										RIVETING.										
STRAKES.	AS IN SHIP.						PER RULE OR AS APPROVED.		EDGES.				BUTTS.							
	AMIDSHIP.		FORWARD.		AFT.		AMIDSHIP.		Single or Double.	Breadth of Lap.	RIVETS.		Double or Treble and for what Length.	RIVETS.		STRAPS.		IF LAPPED.		
	Breadth. Inches.	Thickness. Inches.	Thickness. Inches.	Thickness. Inches.	Breadth. Inches.	Thickness. Inches.	Breadth. Inches.	Thickness. Inches.			Diam. Inches.	Spacing cr. to cr. Inches.		Diam. Inches.	Spacing cr. to cr. Inches.	Breadth. Inches.	Thickness. Inches.	Breadth. Inches.	For what Length. Feet.	
FLAT PLATE KEEL (If Bar Keel, state Riveting)	40	18	14	16	40	18	Double	6	1	4	Treble 1/16	1	3 1/2	19	22					
GARBOARD																				
State actual thickness in way of Double Bottom.																				
B	56	14	13	13	57	14	"	5 1/4	7/8	3 3/7	Treble 1/16	7/8	3 1/8			9 1/2	1 1/2			
C	54 1/2	12	10	10	54	12	"	"	"	"	Quadruple 1/16	"	3 1/4			12	3/4	judgy		
D	65	11	9	9	65	11	"	"	"	"	"	"	"	"	"	"	"	"		
E	54 1/2	12	10	10	54	12	"	"	"	"	"	"	"	"	"	"	"	"		
F	66	13	10	10	66	13	"	"	"	"	"	"	"	"	"	"	"	"		
G	55	14	11	11	57	14	"	"	"	"	"	"	"	"	"	"	"	"		
H	66	13	10	10	65	13	"	"	"	"	"	"	"	"	"	"	"	"		
J	55	13	10	10	55	13	"	"	"	"	"	"	"	"	"	"	"	"		
K	59	12	9	9	59	12	"	"	"	"	"	"	"	"	"	"	"	"		
L	49	14	10	10	48	14	"	6	1	4	Treble 1/16	"	3 1/8			9	1 1/2			
M	60 1/2	16	9	9	59	16	"	"	"	"	"	1	3 1/2	double 12 1/2	10					
N	42 1/2	18	10	10	42	18	"	5 1/4	7/8	3 3/7	"	"	"	double 13 1/2	11					
O	52	9	9	8	52	9	"	4 1/2	3/4	3	double 1/16	3/4	2 5/8	10	10					
P	46	10	10	9	46	10	"	"	"	"	"	7/8	3 1/8	11 1/2	11					
Q																				
DOUBLING of Flat Plate Keel	27 1/2	14	for 1/2 L.																	
Length of Bilges																				
Length of Sheerstrakes																				
Length of Strake below																				
POOP SIDES																				
BRIDGE SIDES																				
FORECASTLE SIDES																				

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Begs, Keelsons, Tie and Stringer Plates, Plating, &c. *Steel plates from Carnegie Steel Co. Ltd. in Pittsburgh U.S. & Bolton & Vaughan, 6" & Glasgow Steel Co. - C.L. & J. from Carnegie Steel Co. Ltd. & Ironmen Long & Co. Ltd. - Siemens-Martin Process.*

**Spar or Lining** (Butts, treble riveted for *half* length amidship.)  
**Stringer Plate** (Straps, single, double or overlapped for *whole* length amidship.)  
**Main Stringer** (Butts, treble riveted for *whole* length amidship.)  
**Plate** (Straps, single, double or overlapped for *whole* length amidship.)  
**Butts of Bilge & Side Stringers and Tie Plates**, treble or double riveted? *double*  
**Inner Bottom Plating**, riveting of Edges *double*  
**Centre Girder Butts**, treble riveted *double*  
**Keelson Butts**, double riveted.  
**Frames**, riveted through Plates with *7/8* in. Rivets, about *6 1/8* apart.  
**Rivets**, state whether Iron or Steel *Steel*

**FRAMES** extend in one length from *Middleline to Tankside & from Tankside to Sparke, Poop & Forecastle (Gunwale)*  
**REVERSED FRAMES** on floors and frames extend from *Middleline to Tankside and all to Sparke [where no L frames] and alternate to Forecastle Stringerplate.*

MASTS, SPARS, &c.									
No.	Material.	Total Length	DIAMETER AND THICKNESS.				No. of Plates	ANGLES.	RIVETING.
			At Partners.	Heel.	Hounds.	Head.			
<i>Pl.</i> LOWER MASTS...	Fore	<i>Steel</i>	<i>121</i>	<i>24 x 3/20</i>	<i>1 1/2 x 1/20</i>	<i>20 x 1/20</i>	<i>13 x 1/20</i>	<i>2</i>	<i>double</i>
	Main	"	<i>113</i>	"	"	"	"	"	<i>double</i>
	Mizen	"	"	"	"	"	"	"	<i>double</i>
Bowsprit									
Topmasts, Yards and Remainder of	<i>Spars Wooden poles</i>								
Rigging, Material and Size, Shrouds	<i>4 steel. Fore &amp; main stays 5" - other 3" Stays 5" &amp; 3"</i>								
Sails.	<i>Suit of one part Sails, and the following spare sails</i>								

EQUIPMENT No. 47688 LETTER Z ANCHORS.									
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK		WEIGHT OF STOCK		TEST, PER CERTIFICATE.		WEIGHT REQ. BY RULE	
		Cwts.	qrs.	Cwts.	qrs.	Tons.	cwts.	Cwts.	qrs.
35983	1st Bower	65	2	14		51	7	63	2
35981	2nd "	62	3	14		50	"	63	2
35286	3rd "	54	3	7		45	5	34	"
	Collective weight	183	1	7				181	"
35095	Stream	15	1	3	3	16	14	15	1
35255	Kedge	7	1	1	3	9	9	7	2
	2nd Kedge								

CHAIN CABLES.									
Number of Certificate.	Fathoms.	Size.	Test per Certificate.	WEIGHT OF CHAIN CABLE		Fathoms and Size per Rule.	Description.	Makers of Cables.	When and where tested, and by whom.
				Supplied.	Per Rule.				
14264	2702	1 1/2	127 1/2	101-3	9682-1-11	270-2 1/2	stud link		<i>Pine, near Commission Sundland 30/3/1899 H.S. Wilford</i>
Stream	90	4 3/4	47			90-4 3/4	steel wire	<i>near Commission Sundland 30/3/1899 H.S. Wilford</i>	

**Life-Boats** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

**Correspondence.**—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case). *Letters from Sec M of 13/10, 26/10, 4/11, 18/11, 1898 & 29/5, 31/7, 1899 - & from Sec E of 13/3, 2/4 & 27/11 1899 & Sec M of 13/1/99*