272	HAVING MEANS TO PREVENT OR DAMPEN LOAD OSCILLATIONS	175	HAVING MEANS FACILITATING ASSEMBLY OR DISASSEMBLY
273	.Antisway (i.e., horizontal	176	.Of sectional vertical support for boom
274	movements)	177	.Of boom sections
274	By triangulation of load cables	178	.Of counterweight from hoist
2/5	By cyclic control of trolley	179	.Of traversing hoist from support
076	acceleration or deceleration	180	Vehicle support
276	HAVING RANDOM CONDITION SENSOR	181	And having motor to swing boom
	COMBINED WITH AN INDICATOR OR	294	ADJUSTABLE TO TRANSPORT OR NONUSE
	ALARM OR CONTROLLING MEANS OR	2) <del>1</del>	POSITION (E.G., COLLAPSIBLE)
277	DISABLING MEANS	295	.Crane boom supported by foldable
277	.Senses crane tilt (e.g.,	275	or collapsible tower
278	outrigger sensors)	296	Extensible tower of relatively
2/0	.Means determining overloading	200	sliding sections
	produced by load (e.g., strain	297	Hydraulically pivoted tower or
270	gauges)	291	tower sections
279	.Sensor regulates counterweight	298	.Collapsible inverted "V" frame
200	or counterbalancing means	290	
280	.Boom movement stops responsive	299	supports boom rigging
	to overtravel or proximity to	300	.Collapsible or foldable boom
201	powerline	300	Vertically swinging boom having
281	.Hoisting stops upon load being	201	pivoted sections
	raised to a predetermined	301	.Vehicle stablizing means
	position (e.g., anti-two	302	Lowered from vehicle body
282	block)	202	(e.g., outrigger)
283	WITH MECHANICAL INDICATOR	303	Gear or screw drive to extend
	.With weight indicator	204	foot
284	WITH MOTOR CONTROL	304	Hydraulic means to extend foot
285	.Remote control or at dual	305	Pivoted lever or link to
206	control positions	206	extend foot
286	.Cyclic operation	306	Boom or mast attached
287	.Manual fluid valve actuator	307	SHIP MOUNTED OR FLOATING (E.G., A
288	Plural fluid motors		CRANE FIXED TO A PLATFORM
289	Controlled by common actuator	200	ADAPTED TO FLOAT)
290	.In control cab	308	.Including counterweight or means
291	HAVING OPERATOR SUPPORT OR CAB		to compensate for list, trim
292	BOOM POSITION LOCK	200	or skew of vessel
293	HAVING SNUBBER OR BOOM BACKSWING	309	.Having horizontally and
	STOP	210	vertically swinging boom
166	CLOSURE REMOVER	310	Cable actuated horizontally and
167	WITH HAUL-IN LINE	211	vertically
168	WITH MEANS TO PROJECT LOAD	311	Plural booms
	ENGAGER BEYOND END OF BOOM	195	HAVING COUNTERWEIGHT OR
169	GROUND WHEEL OPERATED	106	COUNTERBALANCING MEANS
170	HAVING CLUTCH OR VARIABLE SPEED	196	.Counterweight movable relative
	TRANSMISSION	100	to load support
171	.Traveling bridge	197	Along rectilinear path
172	.Power takeoff	198	On wheeled carriage
173	.Variable speed transmission	199	HAVING BOOM SHIFTABLE VERTICALLY
174	.Including means to selectively	0.0.0	ALONG A LINEAR PATH
	couple plural hoist functions	200	.Movable along nonvertical
	to common power shaft		rectilinear path

201	.Length of hoisting cable between	230	.Extensible by movement of boom
	boom and load decreases		or boom segment along
	automatically as boom is		longitudinal axis thereof
	raised	231	And vertically swinging
202	.Vertically spaced fastening	232	.And vertically swinging
	means along boom support	233	Plural booms
203	.Fluid actuated	234	With adjacent load-supporting
204	.By mounting on vertically		rack
	extensible support	235	Including means for sluing boom
312	TRAVELING BRIDGE		as it is swung vertically
313	Flexible	236	Including plural actuating
314	.Having vertically adjustable	250	means converging toward boom
	track		tip to effect both horizontal
315	.Supporting second traveling		and vertical swinging
	bridge	237	Including means to swing boom
316	.Having plural trolleys		vertically
317	.Having vertically or	238	Fluid actuated ram
	horizontally swinging boom on	239	Flexible cable
	bridge or trolley	240	Having passage for luffing
318	.Having horizontally swingable		cable through boom supporting
	track- or load-rotating means		member
	on trolley	241	Human or animal powered
319	.Having load engager mounted for	242	Having specific engager for
	guided vertical movement		load
	beneath trolley	243	Grab
320	.Motor fixed to bridge-supporting	245	.And means to swing boom
	structure		horizontally
321	.Trolley mounted motor for	246	Including flexible member
	trolley traversal via cable		driving gear or pulley having
	means		axis collinear with boom pivot
322	.Bridge mounted motor for trolley	247	Gear drive
	traversal via cable means	248	Including rack or worm
323	.Bridge mounted motor for load	249	Human or animal powered
	lifting	250	.Having fluid ram directly
324	.Having vertical supporting legs	250	actuating load cable or sheave
	(e.g., gantry)		therefor
325	Overhanging end	251	.Having specific engager for load
326	Having specific engager for	252	.Having passage for hoist cable
	load	-	through boom supporting member
327	.Having specific engager for load	253	.Having specific bearing
223	HAVING HORIZONTALLY SWINGING BOOM		structure
	OR BRIDGE	255	HAVING VERTICALLY SWINGING BOOM
224	.Boom mounted for guided	256	.And compensating means to
	horizontal translation (e.g.,		maintain horizontal movement
	trolley mounted)		of load
225	.Having trolley thereon	257	.And trolley
226	Having vertical support remote	258	.Protruding laterally from
	from pivot (i.e., swinging		vehicle
	bridge)	259	.Having specific engager for load
227	And vertically swinging	260	.Having means to swing boom
228	And means acting independently		vertically
	of hoist mechanism to shift	261	Fluid actuated ram
	trolley	262	Flexible cable
		263	Human or animal powered
			-

264	.Extensible by movement of boom	121	Permanently spaced
	or boom segment along	122	Carriage holders, track clamp
	longitudinal axis thereof	123	Pulley changers
71	OVERHEAD	328	.Self-propelled trolley
72	.Cable, ship coaling type	329	Automatic traversing stop
73	.Shiftable track	330	Load-handling
74	Longitudinally movable	331	Electric
75	Tilting	332	With grab
76	.Cable	333	With guide bar
77	Load-handling	334	With grab
78	Draft-rope	335	With ladle
79	Dumping	336	.Nonmotor traverse
80	Double tackle	337	Nonmotor hoisting
81	Grab	338	With load-handler
82	Sling	339	Discharging
83	Load suspension	340	Automatic
84	Grab	341	Fluid hoist
85	Sling	342	Lever hoist
86	Automatic stop	343	.Surface vehicle
87	Draft-rope, hoist-rope traverse	344	Self-propelled
88	Divided hoist-rope	345	Drum
89	Hook-lowering		
90	_	346	.Trolley having wheels which
	Running trackCable return		contact different sides or
91		2.45	planes of a beam
92	Gravity return	347	BOOM OR MAST
93	Cable	348	.Extensible by sliding sections
94	Draft-rope, independent	349	By fluid pressure
	traverse	350	Having bearing means between
95	Anchored hoist-rope		extensible sections
96	Hook-lowering	270	METHODS
97	Load suspension	271	MISCELLANEOUS
98	Hoist, carry and lower		
99	Running rope		
100	Sheave catch		
101	Pivoted cable extension	CROSS-I	REFERENCE ART COLLECTIONS
102	Sheave-frame catch		
103	Sliding	901	DOLLEY-TYPE CRANES
104	Pivoted		
105	Double		
106	Rope catch		
107	Sliding	<b>₽∩DETC</b> N	N ART COLLECTIONS
108	Pivoted	FOREIGI	V ART COLLECTIONS
109	Double	<b>505</b>	
110	Rope grip	FOR	CLASS-RELATED FOREIGN DOCUMENTS
111	Variable elevation		
112	Carriage release		
113	Side draft		
_			
114	Coacting sheave		
115	Ratchet sheave		
116	Trips, stops and knockers		
117	Rope carriers		
118	Cable stop-operated		
119	Trolley-supported		
120	Carrier sheave-operated		