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UDC 629 Transport vehicle engineering

Classification Décimale Universelle
CDU 629 Technique des véhicules de transport

Dezimalklassifikation
DK 629 Fahrzeugtechnik

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Foreword

The English version of the Universal Decimal Classification (UDC) is being prepared and published as BS 1000 by the British Standards Institution (BSI) at the original joint request of the British Society for International Bibliography (BSIB) and the Association of Special Libraries and Information Bureaux (ASLIB), now amalgamated as Aslib. It has the approval of the Lake Placid Education Foundation, New York, proprietors of the Dewey Decimal Classification, from which the UDC derives. The first English Full Edition is the 4th International edition authorized by the International Federation for Documentation (FID), The Hague, Netherlands.

This section is part of the English Full Edition. It should be used in conjunction with the Abridged English Edition, BS 1000A, which refers to many

other subjects of interest not listed in this schedule, and provides a conspectus of the whole scheme, together with an introduction to its use. For further practical information about the principles, application and utilization of the scheme, users should refer to BS 1000C.

This edition of UDC 629 includes modifications authorized in 'Extensions and Corrections to the UDC' up to and including Series 9, No. 2, dated March 1976. Subsequent issues of 'Extensions and Corrections to the UDC' should be consulted to keep the schedule up to date. Further information about this and other UDC publications is given on page 52. British Standards related to this part of BS 1000 are listed on the inside back cover.

Scope

Under 629 is classed information about the building of vehicles and craft for the transport of persons or

goods, but not the building of tracks and surfaces for them, nor the management of traffic.

Related subjects

351.81	Traffic – Public administration
527	Navigational astronomy
614	Public health. Accident prevention
62-1/-9	Characteristics and parts of machines
621.1	Generation, distribution and use of steam. Steam engines. Boilers
621.22	Hydraulic energy. Water power. Hydraulic machinery
621.3	Electrical engineering
621.4	Heat engines (other than steam engines)
621.5	Pneumatic energy, machinery and tools. Refrigeration and liquefaction techniques and plant
621.6	Fluids handling, storage and distribution plant and equipment
621.7	Plastic or chipless working etc
621.8	Mechanical power transmission etc
621.9	Working, machining with chip formation etc
623.8/.9	Naval engineering
624.144/.146	Damage and accidents caused by snow and ice. Precautions, prevention and control – Civil and structural engineering
625	Civil engineering of land transport. Railway engineering. Highway engineering
628.5	Industrial nuisances : prevention, abatement, control
628.8	Indoor climate technology. Air conditioning, heating, ventilating
628.9	Lighting. Illuminating engineering
643.3	Kitchens. Kitchen furnishings
654	Telecommunication services : organization, administration and operation
656	Transport and postal services. Traffic organization, control
658.7	Purchasing. Procurement. Management of stock
681	Precision mechanisms and instruments
684.4	Furniture. Design. Manufacture. Restoration
685.1	Saddlery. Harness making
697	Heating, ventilation and air conditioning of buildings
698	Finishing and decorating trades
71	Physical planning : regional, town and country planning etc, <i>especially</i>
711.7	Traffic routes : layout, planning
725.3	Buildings for transport, traffic, storage

Auxiliary signs and subdivisions

Full information about the common and special auxiliary signs and subdivisions (often abbreviated to 'common and special auxiliaries') will be found in BS 1000A, BS 1000C and BS 1000 : Auxiliaries.

Colon sign of relation. For the classification of information for the public, as in abstracts and bibliographies, maximum use of colon combinations

rather than of common or special auxiliaries is recommended. The use of the colon sign of relation is preferable for multiple entry systems, as it will help prevent the concealment of information. This usually results in longer notation, however, and for information for more restricted use, the application of auxiliaries, where available, may be simpler and more convenient provided that there is an adequate alphabetical subject index.

Common auxiliaries. The common auxiliaries of language = . . . , form (0 . . .), place (1/9), race and nationality (= . . .), time "...", point of view .00 . . . , materials –03 . . . and persons –05 . . . are applicable throughout the UDC. However, they should be used mainly to express concepts not otherwise provided for in the schedules.

Special auxiliaries. Special auxiliary subdivisions are listed under 629 itself and under 629.1, 629.11, 629.12, 629.4 and 629.7. Those under 629 are applicable only to 629.4/.7. The others may be detached and applied to any subdivision of the number at which they are listed, e.g.

629.1–482	Racing vehicles and craft
629.118.3	Two-wheeled vehicles. Bicycles in general
629.118.3-482	Racing bicycles

The apostrophe, denoting synthesis, may be used at the subdivisions of 629.7 (see note 6 under 629.7). The –1/–3 and –5/–9 auxiliaries listed under 62 are applicable throughout 629. Attention is particularly drawn to the following :

62–5	Operation. Regulation. Control
–52	Automatic control. Servo mechanisms
–58	Control of motion. Acceleration. Deceleration. Reversing
–581	Reversal of movement. Reversing
–585	Devices for altering speed or motion. Reduction gears
–585.9	Reduction gears
–59	Slowing, braking, stopping devices
–592	Brakes. Braking methods
–592–52	Automatic brakes in general
–592.1	Mechanical brakes : block brakes, shoe brakes, disc brakes
.12	Direct-acting : on wheel rim, tyre, axles, shafts
.13	Indirect-acting : on drums, discs
.2	Hydraulic brakes
.3	Electric, electromagnetic brakes
.5	Pneumatic brakes : vacuum, compressed-air

The –4 auxiliaries listed under 62 are applicable in this schedule only to 629.4/.7.

Typographic presentation

Small type is used for cancelled numbers and text.

The arrow → means either 'see' or 'see also' according to the context.

The symbol $\cong$ 'subdivide as' means that the number preceding it may be subdivided in the same way as, and with meanings analogous to the subdivisions of, the number which follows it.

SCHEDULE

629 TRANSPORT VEHICLE ENGINEERING

Special auxiliary subdivisions

<i>The following special auxiliary subdivisions are applicable throughout 629.4/.7 (but not under 629.1)</i>		629.033	Propulsion systems for particular kinds of vehicle, e.g. track and rack-and-pinion propulsion for land vehicles
629.01	VEHICLE DESIGN PRINCIPLES: CHARACTERISTICS, CAPABILITIES, TESTS	.034	Propulsion systems for particular kinds of vehicle and craft, e.g. rope, cable, chain and worm-gear propulsion for land and marine vehicles
	<i>For particular physical characteristics→53</i>	.035	Propeller, screw propulsion
	→629.021 Construction principles and properties (of whole or parts)	.036	Reaction, (rocket, jet) propulsion
.012	Dimensions. Dimensional design	.038	Combined propulsion systems
.013	Weights. Tonnage. Capacity. Payload		
.014	Functional capabilities. Mode of use	629.04	INTERIOR LAYOUT. ACCOMMODATION, INSTALLATIONS, EQUIPMENT (FOR PERSONS AND FREIGHT)
	<i>To be used only for capabilities or uses of vehicles not already provided for in the principal divisions</i>		→629.024 Bodywork. Hull etc
.1	General functional capabilities. Multi-functional, multi-purpose vehicles	629.06	Vehicle auxiliary systems and devices
.17	Amphibious vehicles	656.07	Administration – Transport services
.2	Active vehicles: tractor (towing), pusher, carrier, launcher vehicles	.042	Interior layout and finish generally. Compartments, cabins etc
.3	Passive vehicles: towed, pushed, carried, launched	.043	Crew arrangements, stations, quarters. Control compartment
.4	Trains (of active and passive vehicles)	.044	Entry-exit, embarkation-debarkation arrangements: gangways, ladders etc
.6	Passenger vehicles in general	.045	Freight (cargo): loading, unloading, stowage, tying-down arrangements
.7	Freight (cargo) vehicles in general		→629.065 Materials handling equipment
.8	Vehicles designed for special purpose, e.g. firefighting, racing	.046	Passenger comfort, service and hygienic arrangements
.015	Mechanics and dynamics in relation to medium, environment		<i>Further particulars may be denoted by colon combination the subdivisions of 64 and 684</i>
	<i>For details of solid, liquid and gas mechanics→531/533</i>	.047	Personal protection and safety installations and equipment
	<i>For interaction between vehicle and track or road→625.03</i>		→614.86 Traffic and other accidents—Accident prevention
.016	Performance characteristics, capabilities. Assessment. Speed etc	629.067	Vehicle safety and protection systems
.017	Operational reliability, fitness for use. Roadworthiness. Seaworthiness. Airworthiness. Stability. Controllability. Manoeuvrability. Braking capacity	.048	Conditioning systems: air-conditioning, heating, ventilation, lighting
	<i>For brakes, use the –59 special auxiliary subdivisions listed under 62</i>		<i>Further particulars may be denoted by colon combination with the subdivisions of 628.8/.9 and 697</i>
.018	Vehicle test procedures and equipment		
629.02	VEHICLE STRUCTURE. CONSTRUCTION PRINCIPLES. GENERAL LAYOUT. PARTS	629.05	GUIDANCE, CONTROL-INITIATION AND NAVIGATION SYSTEMS (VEHICLE-BORNE)
.021	Construction principles and properties (of whole or parts)		→629.062 Control linking, reinforcing systems
.022	General layout, configuration. Relation of parts to whole	629.066	Observation, signalling, communication, identification devices
.023	Shell. Framework. Structural members		
.024	Bodywork. Hull etc	.051	Principles. Purpose
.025	Special vehicle structures	.052	Means of operation (acoustic, radio, optical, inertial etc)
.026	Layout of propulsion unit structures		Acoustic systems, e.g. sonar
	→629.03 Propulsion systems	.2	→681.833 Sonar methods and equipment
.027	Support, suspension, shock-absorbing structures. Wheels etc	.3	Radio (including television, radar)
.028	Attachments. Couplings. Mountings. Other auxiliary structures		→621.39 Telecommunication. Radio-communication. Television etc
629.03	PROPULSION SYSTEMS	.5	Infra-red (IR) systems
	<i>Particulars of propulsive units may be denoted by the –8 special auxiliaries listed under 62, and by colon combination with the subdivisions of 621</i>		→621.384.3 Technical application of infra-red rays
	→629.026 Layout of propulsion unit structures	.6	Optical systems, e.g. light beacons, star following
.031	Propulsion systems using muscle and natural forces		→527 Navigation. Nautical astronomy
.032	Wheel drive or propulsion	656.05	Traffic regulation and control. Signals, especially
	<i>For wheels as support structures→629.027</i>	656.057	Light beacons
		681.783.322.3	Navigation instruments—Optical apparatus
		.7	Inertial systems

629.052.9	Other systems or means of operation	629.072	Driving, navigating, piloting technique in general, including training, test runs (trial runs)
.053	Special systems of control for particular types of vehicle		→629.016/.018 Performance characteristics. Operational reliability. Test procedures etc
.054	Instruments (vehicle-borne)		
	→53.08 General principles and theory of measurement and the design of measuring apparatus	.073	Special techniques for particular conditions (weather, state of route or terrain, engine failure etc)
	621.317 Electrical measurement (methods and apparatus)	.075	Techniques of starting, getting under way, take-off, launch
	681.2 Instrument making. Instrumentation. Measuring instruments and their manufacture		→629.085 Base equipment and technical procedure for starting, take-off, launching
.058	Operational characteristics (of systems and instruments)	.076	En-route, on-course operational techniques and performance
629.06	VEHICLE AUXILIARY SYSTEMS AND DEVICES	.077	Stopping, slowing, berthing, landing techniques
	→629.04 Interior layout. Accommodation, installations, equipment (for persons and freight)	629.08	BASE EQUIPMENT, INSTALLATIONS. CORRESPONDING TECHNICAL PROCEDURES
.062	Control linking, reinforcing systems. Servo control(s) etc		→656.06 Auxiliary installations and services – Transport services
.063	Auxiliary supply and feed systems for water, gas, fuel, lubricant etc		725.3 Buildings for transport, traffic, storage – Architecture
	<i>Further particulars may be denoted by the –6/-72 special auxiliaries listed under 62 and by colon combination with the subdivisions of 621.6</i>	.081	Workshop, shed, garage, dock, hangar installations and equipment
.064	Auxiliary power systems in general : pneumatic, hydraulic, electric etc		→629.018 Vehicle test procedures and equipment
	→621 Mechanical engineering in general		<i>Further particulars may be denoted by colon combination with the subdivisions of 621.7/.9</i>
	621.22 Hydraulic energy	.082	Ancillary service, supply installations. Depots. Stores (for fuel, water etc)
	621.3 Electrical engineering		→621.6 Fluids handling, storage and distribution plant and equipment
	621.5 Pneumatic energy		656.06 Auxiliary installations and services – Transport services
.065	Materials handling equipment, including re-fuelling, revictualing devices	.083	Maintenance, handling, servicing, repair of vehicles
	→629.045 Freight (cargo) : loading, unloading, stowage, tying-down arrangements		→629.065 Materials handling equipment, including refuelling, revictualing devices
	621.86 Materials handling	.084	Spare parts, replacements : issue, stores, stock control
	621.87 Cranes. Lifts etc.		→658.78 Stock control. Storing. Despatch – Business management
.066	Observation, signalling, communication, identification devices	.085	Base equipment and technical procedure for starting, take-off, launching
.067	Vehicle safety and protection systems		→629.075 Techniques of starting etc
	→629.047 Personal protection and safety installations and equipment	.086	Special base equipment and techniques for en-route control and tests : tracking etc
	<i>Further particulars may be denoted by colon combination with the subdivisions of 614.8 and 656.08</i>		→629.018 Vehicle test procedures and equipment
.069	Other auxiliary systems forming part of the vehicle, e.g. armament	629.076	En-route, on-course operational techniques
629.07	OPERATIONAL TECHNIQUES		Base equipment and technical procedure for stopping, slowing, berthing, landing
	→351.81 Traffic—Public administration		→629.077 Stopping, slowing, berthing, landing techniques
	629.01 Vehicle design principles	.087	
	656.07 Administration — Transport services		
.071	Preliminary operations and preparations		

Principal divisions

629.1 LAND VEHICLE AND WATER CRAFT ENGINEERING. SURFACE TRANSPORT (EXCEPT RAIL)

629.1 Transport engineering [cancelled] → 629

Special auxiliary subdivisions for 629.1	629.1-42	TRACTORS, ACTIVE, TOWING VEHICLES, TOWING CRAFT GENERALLY
<i>The –1/-3 and –5/-9 special auxiliary subdivisions listed under 62 are also applicable here</i>		<i>For agricultural tractors →631.382</i>
629.1-4	–428	Vehicles with auxiliary wheels which carry a motor, permitting motorized drive of the vehicle, e.g. bicycles
EMPLOYMENT AND PURPOSE OF VEHICLES AND CRAFT		

629.1-43	PASSIVE, TOWED VEHICLES AND CRAFT. TRAILERS	629.1-476	Vehicles and craft for pilotage, police, customs →614.85 Technical organization by police. Patrol cars. Accident squads etc – Accidents
–438	Steering apparatus for several vehicles and craft, for trailers	–477	Firefighting vehicles and craft →614.846.6/.9 Fire engines. Fire floats etc – Accidents
629.1-44	FREIGHT (GOODS, CARGO) VEHICLES AND CRAFT	–479	Other special purpose vehicles and craft. Service vehicles and craft
–441	Flat-decked vehicles and craft		Snow-clearing vehicles. Snow-ploughs
–442	Tipping vehicles and craft For rail-borne tipping wagons →629.463.67	.1	Spraying, sprinkler vehicles and craft, e.g. water wagons
–443	Closed, covered vehicles and craft, e.g. vans	.2	
–444	Vehicles and craft with cooling installation, e.g. refrigerated vans	.5	Vehicles and craft for gauging, tunnel inspection etc
–445	Special freight vehicles and craft	.6	Radio vehicles and craft, e.g. for radio commentary, outside-broadcast vehicles
.2	For carrying luggage	629.1-48	LIGHT VEHICLES AND CRAFT
.3	For carrying mail	–482	Racing vehicles and craft
.6	For carrying gaseous, liquid, pulverous, granular materials. Tank vehicles, tankers	629.1-49	OTHER MATTERS ABOUT VEHICLES AND CRAFT
.61	For gaseous materials, gases	–492	Devices for converting vehicles and craft, e.g. from passenger carrying to freight carrying
.62	For liquids	–494	Power take-offs from transmission shafts of motor vehicles and craft, for driving machines, e.g. pumps, lifting gear, cranes etc
.63	Other vehicles and craft for carrying gaseous, liquid, pulverous, granular materials	–498	Remote-controlled vehicles and craft →621.398 Telecontrol. Telemetering. Remote indication – Electrical engineering
.7	For carrying bulk, solid goods	629.1.01	PARTS OF VEHICLES AND CRAFT OTHER THAN THE POWER PLANT
.72	For foodstuffs, e.g. fruit, vegetables	.011/.012	Structural components of vehicles and craft <i>These numbers are further subdivided under 629.11 and 629.12</i>
.75	For timber, e.g. poles, posts	.013	Traction devices. Harness components. Couplings
.8	For carrying animals, e.g. cattle, horses	.1	Traction, towing devices. Drawgear
.9	Other special freight vehicles and craft	.11	Shafts
629.1-45	PUBLIC PASSENGER TRANSPORT VEHICLES AND CRAFT IN GENERAL. VEHICLES AND CRAFT FOR HIRE	.12	Harness, traces →685.1 Saddlery. Harness making
–453	Vehicles and craft for communal transport	.13	Poles, thills
.2	Conventional vehicles and craft, with conductor	.14	Swingletree
.3	Pay-as-you-enter vehicles and craft	.15	Yoke. Yoke shafts
.31	One-man type (with combined driver-conductor)	.16	Fork shafts
.32	With separate conductor	.2	Shock-absorbing devices
–454	Vehicles and craft for hire, for personal, individual transport	.23	Buffers. Bumpers
629.1-46	PRIVATE VEHICLES AND CRAFT	.26	Combined traction and shock-absorption devices
–461	Residential vehicles and craft	.3/.7	Couplings
–462	Vehicles and craft with sleeping accommodation	.31	Screw couplings
–463	Vehicles and craft with eating accommodation	.32	Couplings with vertically pivoted members
–464	Vehicles and craft for party travel, e.g. motor coaches, mini-buses	.33	Couplings with horizontally pivoted members
–465	Vehicles and craft for health, medical, sanitary purposes	.34	Couplings with axially pivoted members
.2	Ambulances	.35	Couplings with vertical bolts
.4	Disinfection vehicles and craft	.36	Couplings with horizontal bolts
.5	Sanitary vehicles and craft, with bath and washing facilities	.37	Couplings with arrowhead links
.8	Hearses	.38	Couplings with oscillating links
–466	Religious, ecclesiastical vehicles and craft	.39	Couplings with pincer-shaped links
–467	Vehicles and craft with entertainment facilities, e.g. mobile theatre, cinema	.41	Jaw couplings
–468	Vehicles and craft for education, instruction, training. School vehicles. Driving-school vehicles	.42	Rigid steering couplings
629.1-47	SPECIAL PURPOSE VEHICLES AND CRAFT	.43	Automatic couplings engaged by impact
–471	Mobile kitchens	.45	Couplings between locomotive and tender
–472	Vehicles and craft for hunting, fishing	.48	Reducing couplings
–473	Agricultural vehicles	.49	Other couplings and parts
–474	Industrial vehicles and craft	.5	Various kinds of coupling. Couplings between trailer and towing vehicle. Coupling of air, gas, fuel lines etc
.1	Workshop vehicles and craft	.6	Special coupling devices for road vehicles
.21	Vehicles and craft with winch →629.1-494 Power take-offs for driving machines, e.g. lifting gear	.7	Various coupling devices
.22	Crane vehicles and craft	.73	Auxiliary couplings
.23	For towing away. Breakdown vehicles and craft	.74	Safety devices for couplings
		.75	Locking devices

629.1.013.76	Uncoupling devices	629.1.03	VEHICLES AND CRAFT WITH PROPULSION OTHER THAN THROUGH WHEELS
.79	Other devices. Indicating devices for the position of couplings. Lubricating devices	.031	Vehicles and craft propelled by muscular strength
.8	Components of harness and couplings	.1	Manual propulsion other than by oars
.81	Hooks	.12	Driving cranks
.82	Tensioners. Chains	.2	Propulsion by oars, paddles, poles
.83	Bar and bob weight	.21	Simple paddles. Poles
.86	Shaft fastenings	.22	Oars and sweeps in tholes, rowlocks
.87	Pole (thill) fastenings	.23	Steering apparatus (associated with oars, sweeps)
.88	Fastenings for traces on the swingletree	.24	Rowing according to direction of travel
.014	Steering gear. Controls <i>This number is further subdivided under 629.11 and 629.12</i>	.3	Propulsion by foot, by walking, crawling. Pedal drive
.015	Supports. Parking, mooring, landing gear <i>This number is further subdivided under 629.11 and 629.12</i>	.32	With epicyclic gears (with planet wheels)
.018	Observation, indicating, warning equipment. Signals	.33	With spur wheels, without chains or transmission gear
.1	Optical devices. Periscopes. Mirrors	.34	With bevel gear
.2	Acoustic signal apparatus. Sirens. Horns, Hooters	.35	With treadles or pedals connected to rods or cranks, especially for children's toy cars
.3	Visual signal apparatus. Flags	.36	With treadles or pedals
.38	Reflectors →628.947.27 Reflectors for vehicles – Illuminating engineering	.362	Connected to chains, belts, toothed wheels
.4	Speed indicators as signalling devices	.364	With other transmission methods
.5	Direction indicators. Indicators for the position of the steering controls	.4	Foot-assisted propulsion. Partial pedal drive
.6	Automatic indicators of course or route, e.g. when overtaking	.42	Coupled manual and pedal drive
.7	Communication devices to the interior and exterior of the vehicle or craft: telecommunication, intercommunication →654.9 Signalling. Alarms. Remote control (telecontrol) and remote indication – Telecommunication services	.43	Pedal drive with auxiliary devices storing kinetic energy (springs, flywheels, sails etc). Drives activated by the rider's legs
.72	Transmission of orders to the engine room, e.g. 629.1.018.72 : 621.398 By telecontrol, remote indication	.5	Propulsion by movement of the seat, saddle
.73	Communication between passengers and driver or controller	.7	Propulsion by muscular strength transmitted through friction wheels, chains, gears, rods etc
.76	Radio equipment →621.396 Radiocommunication apparatus and methods 629.1–479.6 Radio vehicles and craft <i>Further particulars may be denoted by colon combination, e.g.</i> 629.1.018.76 : 621.396.3 Built-in radio equipment in vehicles and craft	.032	Tracked vehicles. Vehicles with wheels combined with other means of propulsion
.77	Devices for indication of and communication with sunken, stranded craft	.1	Tracked vehicles (crawler, caterpillar vehicles)
.8	Identification marks. Registration marks, plates etc	.2	Half-tracked vehicles (with combined wheel and track drive)
.81	Name plates. Nationality plates. Registration plates	.3	Half-sledge vehicles (with wheels and runners)
.811	Name plates	.033	Vehicles with propulsion by claws, skids, runners etc
.813	Nationality plates	.2	With legs, walking blocks, feet. Walking, crawling vehicles
.815	Registration plates (number plates)	.3	With spikes, spurs, lugs, claws etc
.83	Plate frames. Plate holders	.5	With drive by cylinder with helical grooves
.84	Control plates	.7	With drive by flaps, fins, vanes
.019	Various other devices <i>This number is further subdivided under 629.11</i>	.8	With drive by exerting thrust against the road or route surface
629.1.02	VEHICLES WITH PROPULSION THROUGH WHEELS	.034	Vehicles and craft with propulsion by fluid currents (water, air)
.026	Rear-axle drive. Rear-wheel drive	.1	With propulsion by sails
.027	Front-axle drive. Front-wheel drive	.8	With propulsion using Magnus effect (Flettner rotors)
.028	Drive through more than two wheels. Four-wheel drive on four-wheeled vehicles	.035	Vehicles and craft with propulsion by reaction pressure of water, gases, air
.4	Four-wheel drive on vehicles with more than four wheels	.2	By reaction pressure of water
.6	Six-wheel drive	.4	By reaction pressure of explosion gases
		.42	Gases from combustion with stored oxygen. Rocket propulsion
		.45	Gases from combustion using atmospheric oxygen. Jet propulsion
		.5	By reaction pressure of escaping vapours or gases. Steam rocket propulsion
		.9	With mixed propulsion, e.g. turbo-prop
		.036	Vehicles or craft with propulsion by paddle-wheels (vane-wheels)
		.1	Without blades
		.2	With paddle-wheels at the sides
		.21	Arrangement of blades (paddles, vanes)
		.212	With fixed blades
		.216	With adjustable, controllable blades
		.3	With paddle-wheels at the stern 629.1.036.3 ≈ 629.1.036.2
		.4	With rudder housing
		.8	Fish-tail and fin types
		.037	Craft with propeller (screw) propulsion under water

629.1.037.1	Propellers (screws) in general	629.1.047	Equipment for protection against the weather : awnings, sun screens
.11	Conventional propellers	.048	Equipment for taking fares, for issue and control of tickets
.12	Propellers according to material	.049	Other equipment and devices : ashtrays, newspaper racks, flower holders and vases, mirrors, mascots
.121	Wood		
.122	Metal		
.123	Wood and metal		
.13	Counter-rotating propellers	629.1.05	INDICATING, MEASURING, RECORDING INSTRUMENTS FOR VEHICLES AND CRAFT →53.08 General principles and theory of measurement
.14	Shrouded propellers. Turbine-type propeller drive	.051	Consoles, mountings, panels, sockets, accessories for measuring instruments
.15	Hollow, concave propellers	.052	Instruments for measuring height, depth (altimeters, bathymeters) →531.717.3 Measurement of height, depth, pitch – Physics
.16	Propellers with variable (adjustable) pitch		531.719.3 Measurement of depth
.17	Propellers with self-adjusting pitch		531.719.4 Measurement of height, altitude
.2	Arrangement of propellers		629.12.014.55 Sounding. Depth control in submarines
.21	Propellers at the stern. Propellers as steering device	.2	Altimeters
.22	Propellers at the bow, at the sides	.3	Altitude difference meters
.23	Conduction of water to the propeller. Propulsive tubes. Propellers in chambers, tunnels	.4	Rate-of-climb meters
.24	Adjustably mounted propellers (which may be slewed, raised, lowered)	.053	Position indicators. Speed indicators
.25	Counter-rotating propellers on the same axis	.1	Position indicators. Instruments for determining latitude, longitude and variations in these co-ordinates. Sextants. Direction indicators →527.62 Position-fixing in aircraft. Aero-navigation
.26	Other arrangements for multiple propellers		
.27	Propellers for outboard motors	.11	Compasses
.28	Craft with detachable, interchangeable propulsion units, e.g. with outboard motor. Craft with propulsion unit (pushing or pulling) as separate body fixed integrally at rear ('floating engine rooms')	.12	Non-gyroscopic sextants
.29	Reserve propellers. Auxiliary propellers	.13	Gyroscopic sextants
.3	Propeller body. Attachment of the blades	.14	Telescopes
.4	Propeller shaft	.15	Sextants for position finding
.5	Propeller shaft bearings, housings etc	.16	Flow speed meters
.6	Stern-tube	.17	Direction indicators
.038	Vehicles and craft with propulsion by airscrew (other than aircraft) 629.1.038.1/.6 629.1.037.1/.6, e.g. 629.1.038.1 Airscrews (propellers) in general .3 Airscrew (propeller) body	.18	Course deviation indicators
.7	Spinners	.2	Speed indicators. Speedometers. Variometers. Anemometers
.8	Airscrew (propeller) covers	.22	For maximum speed
.039	Air-cushion vehicles (ACVs, hovercraft, ground-effect machines, GEMs) →629.437 Air-cushion rail vehicles	.23	For economical speed (cruising speed)
629.1.04	EQUIPMENT AND FURNITURE OF VEHICLES AND CRAFT <i>Equipment not listed below may be denoted by colon combination</i>	.054	Attitude indicators. Artificial horizons. Inclonometers. Turn-and-bank indicators
.041	Installations to counteract pitching and rolling. Installations to keep equipment horizontal	.2	Pitch inclinometers
.042	Sleeping, seating installations	.3	Roll inclinometers
.1	Beds	.5	Turn-and-bank indicators
.2	Seats	.6	Directional gyroscopes (gyrocompasses)
.3	Folding seats	.7	Artificial horizons
.6	Headrests. Armrests	.055	Other indicating, measuring and recording instruments, e.g. based on the action of fluid media
.7	Supports for standing passengers, for 'strap-hangers'	.1	For static pressure
.043	Tables. Desks	.2	For dynamic pressure : air-speed indicators
.2	Hinged, collapsible tables	.3	For the direction of flow
.4	Movable tables. Tables with fiddles (fixtures to counteract shock, to stop objects rolling off)	.4	For load line and draught, e.g. Plimsoll line
.044	Luggage racks. Luggage stands. Supports for accessories	.5	For pitch and roll
.1	Luggage racks	.6	For water level (in bilge, reservoirs etc)
.2	Luggage stands	.056	Instruments for monitoring the propulsion system and fuel
.3	Holders, stands for umbrellas, sticks etc	.2	Revolution counters →531.771/.772 Revolution counters – Physics
.4	Holders for containers (for cans, flasks, bottles)	.3	Pressure gauges →531.787 Pressure measurement. Manometers. Barometers etc – Physics
.5	Holders for lamps, shades, reflectors	.32	For engine inlet pressure
.7	Other holders for accessories. Lockers	.33	For vacuum in engine →531.788 Measurement of vacuums – Physics
.045	Sanitary installations: lavatories, washing facilities	.34	For various gaseous propellants
.046	Ladders. Stairways. Devices for boarding (embarking), alighting (debarking, disembarking): gangways, gang-boards. Rope ladders (Jacob's ladders)	.35	For various liquid propellants
		.36	For fuel
		.37	For lubricants
		.38	For coolants

629.1.056.39	Other kinds of pressure gauge	629.1.071	Dimensions. Weight
.4	Thermometers	.1	Dimensions (linear magnitudes): length, breadth, depth
→536.5	Temperature measurement. Thermometers etc.	.2	Cubic capacity
.41	Free-air thermometers	.21	Calculation in general
.42	Inlet-air thermometers	.22	Gross tonnage
.43	Cylinder-head thermometers	.23	Net tonnage
.44/.49	Other kinds of thermometer	.5	Weight. Load capacity
629.1.056.44/.49	629.1.056.34/.39	.52	Gross weight
.5	Instruments for measuring various other physical or chemical quantities	.522	Weight before departure
.54	For measuring concentration, chemical composition	.523	Weight after arrival
.6	Instruments for measuring mechanical or thermal energy. Power output meters	.53	Net (dead) weight, tare
→531.78	Measurement of force, work and pressure—Physics	.54	Weight of fuel
.7	Instruments for measuring electrical quantities	.55	Load capacity
→621.317.7	Electrical measuring apparatus and instruments		<i>Particulars of load capacity may be denoted by adding the digit 1 and the capacity in kilograms for vehicles and craft of less than 1 tonne capacity, e.g.</i>
.8	Consumption meters		629.1.071.551.750 Load capacity 750 kg
629.1.056.8	629.1.056.3		<i>the digit 2 and the capacity in tonnes for vehicles and craft of 1 to <10 tonnes capacity, e.g.</i>
→681.12	Reckoners of consumption—Precision mechanisms		629.1.071.552.25 Load capacity 2.5 t
.9	Quantity meters		<i>the digit 3 and the capacity in tonnes for vehicles and craft of >10 tonnes capacity, e.g.</i>
629.1.056.9	629.1.056.3		629.1.071.553.40 Load capacity 40 t
→681.128	Level, stage indicators for vessels—Precision mechanisms		
.057	Various other monitoring instruments	.56	Payload
.2	For the lifting and control surfaces	.072	Speed characteristics. Properties influencing speed
.3	For the undercarriage	.2	High-speed vehicles
.4	For the signal apparatus	.5	Drag (fluid resistance, e.g. air, wind resistance). Streamlining
.6	For the internal spaces		→533.6 Aerodynamics—Physics
.8	For cold effects, icing	.073	Relation between track, terrain etc and stability of vehicle or craft. Travelling, operational characteristics
.058	Other instruments		629.1.073
.1	Time-measuring instruments. Chronometers etc	.074	Fitness of vehicle or craft for use: road-worthiness, seaworthiness. Reliability
→529.7	Chronology. Measurement of time	.075	Controllability. Dirigibility. Manoeuvrability
531.761	Measurement of time—Physics	.076	Freeboard
681.11	Horology—Precision mechanisms, especially	.077	Position of the path of travel relative to the earth's surface
681.113.92	Chronometers for navigation	.2	Vehicles and craft for travel at great heights or great depths
.059	Other matters. Map cases, chart holders	.078	Amphibious characteristics
629.1.06	INSTALLATIONS, FITTINGS OF VEHICLES AND CRAFT: LIGHTING, HEATING, VENTILATION ETC		→629.7.014.17 Amphibious craft—Air and space transport, e.g.
	<i>Further particulars may be denoted by colon combination with the subdivisions of 621.3, 628, 662.6/.9, 696/697 etc</i>		629.735.014.17 Amphibious aeroplanes
.061	Water (storage and supply) installations	.079	Other physical characteristics
.062	Gas installations	.098	Vehicles and craft under construction, projected (planned)
.063	Steam installations		
.065	Compressed air installations		
.066	Electric installations, e.g.		
629.113.066	Electric installations in motor vehicles		
→621.316.174	Electrical installations in vehicles—Electrical engineering		
628.94	Lamps. Accessories etc—Illuminating engineering		
.068	Other matters: painting, glazing, upholstery		
629.1.068	629.1.068		
629.1.07	PHYSICAL CHARACTERISTICS AND PERFORMANCE OF VEHICLES AND CRAFT		
	<i>Further particulars may be denoted by the -1/-9 special auxiliary subdivisions listed under 62 and 629.1, e.g.</i>		
629.1.07-787.1	Arrangement of operating (driving) position in vehicles and craft for best view of terrain etc		

Principal divisions (continued)

629.11 **LAND VEHICLES (EXCEPT RAIL VEHICLES). ROAD VEHICLES**
→62-592 Brakes. Braking methods (see selection on page 1)

Special auxiliary subdivisions for 629.11

629.11.01	PARTS OF THE VEHICLE OTHER THAN THE ENGINE
.011	Chassis and body
.1	Chassis in general
.11	Rigid chassis. Frames
.111	Conventional rigid chassis
.112	Heavy-vehicle chassis
.113	Heavy-vehicle chassis for broad wheel-track (broad gauge)
.114	Radial chassis
.12	Forecarriage (front-carriage). Hindcarriage. Bogies. Subframes
.121	With equal wheels

- 629.11.011.123 With more than four wheels
 .124 Bogies for articulated vehicles
 .126 Centre castings for bogies
 .14 Castor, radial bogies. Bissel bogies
 .15 Forks for bicycles, motorcycles
 .152 Sprung forks in general
 .153 Sprung front-wheel forks
 .154 Sprung rear-wheel forks
 .157 Forks with devices for rapid wheel-changing
 .17 Arrangement of the engine on the chassis
 .2 Chassis according to material
 .21 Wood
 .22 Iron. Steel
 .221 Assembled from steel sections or tubes
 .222 Pressed
 .23 Wood and steel
 .25 Concrete
 .29 Other materials
 .3 Parts of the frame
 .31 Side (longitudinal) members
 .32 Cross (transverse) members
 .34 Pivots. Swinging axles
 .38 Tubes. Sleeves
 .382 Devices to prevent fracture. Reinforcing bolts
 .4 Chassis for special purposes
 .42 For motion in forward direction and at right angles
 .43 For dual-purpose road and rail vehicles
 .44 For variable wheel-track (variable gauge)
 .445 With devices for altering the distance between the axles
 .45 For dual-purpose land and water vehicles or craft (amphibious vehicles)
 .46 For vehicles with convertible, extensible body-work
 .47 For vehicles which can be dismantled and reassembled, for collapsible, folding vehicles
 .48 Devices for increasing load capacity
 .5 Vehicle body, bodywork
 .51 Bodies according to material
 .511 Wood
 .512 Metal
 .513 Wood and metal
 .515 Concrete
 .519 Other materials
 .52 Kind of body structure
 .521 Simple structure, single deck
 .522 Structure with double deck, *e.g.*
 629.114.5.011.522 Double-decker omnibuses
 .6 Components of the body
 .61 Coachwork
 .62 Framework. Body frame
 .63 Panels. Side walls. Rear walls
 .64 Roof, top, cover. Soft (*e.g.* canvas) covers. (Roof) hoods. Folding, collapsible hoods
 .643 Devices for opening and closing the (roof) hood
 .65 Floor
 .66 Doors. Door accessories
 .662 Side screens, grilles
 .663 Doors with safety devices against accidental opening
 .664 Door closures, fastenings, locks
 .665 Emergency doors
 .666 Doors for goods vehicles
 .67 Windows. Window-raisers (winders)
 .671 Frames. Windscreens
 .673 Devices for cleaning windscreens. Windscreen wipers
 →62-787.3 Mechanical devices for prevention of misting-up of glass plates. Screen wipers—Machinery in general
 .676 Anti-dazzle screens
 .68 Parts, areas of the vehicle: layout, arrangement, connection
- 629.11.011.681 Platforms. Connecting passages between passenger vehicles, *e.g.* telescopic connections, 'bellows', 'concertinas'
 .682 Vehicle interior. Passenger compartment, saloon
 .683 Access, circulation areas: gangways, corridors
 .7 Various accessories. Dashboards, splash-leathers etc
 .71 Connecting parts: king-pins, king-bolts etc
 .72 Joints. Articulations. Hinges
 .73 Steps. Stairs. Footrests
 .75 Dirt-preventive devices: mudguards, dashboards, splash-leathers, dust screens
 →62-763 Dirt traps—Machinery in general
 62-784.4 Dust control — Machinery in general
 629.11.012.27 Dust excluders. Hub caps
 .76 Safety and support rails, handrails
 .012 Suspension. Running gear
 .1 Axles
 .11 According to location
 .111 Front axle
 .112 Back (rear) axle
 .12 According to shape
 .121 Straight
 .122 Cranked
 .124 Interrupted, demountable
 .128 Extensible, variable-length
 .13 According to cross-section
 .131 Round
 .132 Square
 .133 Profiled
 .138 Other cross-sections
 .14 According to function
 .141 Rigid
 .142 Radial, convergent
 .145 Oscillating. Swinging axles
 .146 For free or semi-fixed wheels
 .147 Adjustable
 .2 Axle components
 .21 Inactive parts of axles
 .22 Stub axle
 .23 Axle forks
 .24 Axle splines
 .25 Axle bearings
 .251 Journal bearings
 .252 Rolling (ball, roller) bearings
 629.11.012.2.2 ≅ 621.822.6/.8
 .255 Guides
 .257 Axle-boxes
 .26 Lubrication
 →62-72 Lubrication devices—Machinery in general
 .262 External lubrication
 .263 Self-lubrication
 .27 Dust excluders. Hub caps
 →62-763 Dirt traps—Machinery in general
 629.11.011.75 Dirt -preventive devices: mudguards, dashboards, splash-leathers, dust screens
 .3 Wheels
 .31 Wheels according to position
 .311 Front wheels
 .312 Rear wheels
 .314 Simple, single wheels
 .315 Twin, double wheels. Wheels in pairs
 .32 Wheels according to kind
 .321 Fixed wheels
 .322 Removable, detachable wheels
 .323 Attachment, fastening of removable wheels
 .324 Rigidly mounted wheels
 .325 Sprung, elastically mounted wheels
 .1 With spring (solid springing)
 .2 With hydraulic springing
 .3 With pneumatic springing
 .33 Wheels according to material

629.11.012.331	Wooden wheels	629.11.012.551	629.11.012.551-396.2	Pneumatic tyre valves in general
.332	Metal wheels	(contd.)		(for kinds of thread
.1	Spoked wheels			→621.882.082)
.2	Disc wheels		-396.248	Check valves. Non-return valves, inserts
.3	Cast iron wheels		-396.65	Valves for water filling
.4	Cast steel wheels		-396.958	Valve caps with pressure gauge
.339	Wheels of other materials		-396.98	Closing devices. Caps
.34	Wheels according to shape			
.341	Straight, flat-profiled wheels			
.342	Wheels with cambered spokes			
.344	Dished wheels			
.345	Disc wheels with detachable rim (removable in two pieces)			
.35	Wheels according to function			
.351	Driving wheels generally			
.352	Tractor wheels	.2		Pneumatic tyres with inner tube
.354	Trailing wheels			→629.12.012.554 Inner tubes in general
.355	Steered, directional wheels	.3		Tubeless pneumatic tyres
.36	Wheels according to mounting	.5/6		Pneumatic tyres with special emergency properties
.363	Without axles	.5		Multi-chamber tyres. Tyres with air compartments, divisions
.38	Spare wheels. Devices for changing wheels	.51		With radial divisions
.4	Substitutes for wheels	.52		With axial divisions
.42	Balls, spherical rollers	.6		Tyres with other emergency properties
.43	Skids, runners, guide shoes			<i>Further particulars may be denoted by colon combination, e.g.</i>
.44	Wheels with lugs, hooks, claws			629.11.012.551.6 : 678.076-405.8
.49	Other wheel substitutes			Pneumatic tyres filled with porous soft macro-moleculars, e.g. foam rubber
.5	Tyres			
.51	Rigid tyres	.62		With an internal reinforcement
.511	Rigid tyres according to material	.66		With external reinforcement, e.g. with strengthened side-walls
.1	Wooden tyres	.8		Pneumatic tyres with interchangeable tread e.g. Pirelli system
.2	Iron tyres			→629.11.012.558.73-182.8
.3	Steel tyres			Detachable anti-skid devices : snow chains etc
.9	Tyres of other materials	.552		Pneumatic tyres according to pressure
.512	Rigid tyres according to shape	.2		High-pressure tyres
.1	Cylindrical	.4		Medium-pressure tyres
.2	Bevelled, of tapered section	.6		Low-pressure tyres
.514	Fitting of rigid tyres	.553		Outer cover. Casing
.1	Wedging, keying	.1		Of textiles
.2	Hooping. Shrink-fitting	.2		Of rubber on textile inlay
.517	Parts of rigid tyres	.3		With wire, metal cord inlay
.1	Flange. Rim	.5		With puncture-resistant protective inlay
.2	Chamfer	.554		Inner tubes in general
.3	Face, surface. Tread	.5		Inner tubes for cellular tyres
.5	Detachable anti-skid devices	.6		Non-rubber inner tubes
	→629.11.012.72 Anti-skid devices (on road surface)	.555		Fitting and removal of tyres and inner tubes
.52/.55	Elastic tyres	.1		Tyre beads in general
.52	Elastic tyres in general	.2		Beads with inlay, reinforcement
.521	Face, surface. Grooves etc	.22		Steel rings for tyres, especially for bicycle tyres
	→629.11.012.553.5 Casings with puncture-resistant protective inlay	.3		Beads without reinforcement
.1	Face, surface	.6		Tyre levers
.2	Grooves			→621.883 Spanners etc
.3	With built-in, embedded anti-skid devices	.556		Inflation of tyres
	→629.11.012.72 Anti-skid devices (on road surface)	.558		Various devices for tyres
.523	Tread in general	.1		Devices for warning of splitting, leaking, pressure loss
.524	Tread with embedded particles, friction elements etc	.2		Repair devices. Puncture repair outfits
.526	Tyres composed of springs	.3		Protection against puncture, tyre damage. Nail catchers
.53	Solid elastic tyres	.4		Self-sealing tyres (which seal automatically when punctured)
.531	Materials of solid tyres	.5		Indicating devices
.532	Forms of solid tyres	.6		Internal protective devices
.4	Tyres in which the elastic element is between an inner and outer rim	.7		External protective devices
.534	Fixing, securing of solid tyres	.73		Devices to prevent skidding
.537	Parts of solid tyres			<i>Further particulars may be denoted by the hyphen special auxiliaries listed under 62, e.g.</i>
.54	Hollow tyres filled with rubber balls, springs etc			
.55	Pneumatic (inflatable, air-filled) tyres			
.551	Pneumatic tyres according to construction			
	<i>Valves may be denoted by the subdivisions of -396 as indicated under 62-396, e.g.</i>			

629.11.012.558.73 (<i>contd.</i>)	629.11.012.558.73–182.8	629.11.012.84	Cord, cable suspension
	Detachable anti-skid devices: snow chains etc	.85	Spring suspension
.75	Mudguards		629.11.012.851/.856 $\cong$ 62–272.1/.6, <i>e.g.</i>
	→62–763 Dirt traps etc – Machines generally		629.11.012.851 Theory of springs
.77	Tyre covers		.852 Helical springs (coil springs)
.57	Tracks of tyres		.853 Leaf springs
.572	Steel tracks		.854.1 Disc springs
.573	Rubber tracks		.855 Bar springs. Torsion springs
.574	Tracks of other materials		.856 Rubber springs. Other springs
.577	Components of tracks		
.59	Various other questions of tyres and tracks	.857	Kinds of suspension
.6	Components of wheels	.2	Ordinary suspension (of chassis)
.61	Rims	.3	Independent suspension of each wheel
.611	Fixed rims	.4	Swinging (oscillating) suspension
.612	Detachable rims	.5	Suspension with constant reaction (re-storing) force
.3	Fastening of detachable rims	.6	Suspension with balancers (equalizers)
.613	Split rims	.858	Special suspension systems
.4	Detachable split rims	.013	Towing, traction gear. Drawgear. Couplings
.616	Rims according to material		<i>The full subdivisions of this number are listed under 629.1.013</i>
.1	Wooden rims	.014	Seating and personal support devices. Steering gear
.2	Sheet metal rims		Reins. Guides
.3	Cast iron, cast steel rims	.1	→685.123 Head harness. Bridles, reins and accessories—Saddlery
.617	Components of rims		
.1	Rim segments	.2	Saddles for pedal cycles, motorcycles
.3	Double rims	.21	Ordinary saddles
.62	Spokes	.22	Adjustable saddles. Two-piece saddles (with movable leaves)
.621	Wooden spokes	.23	Elastic mounting of saddles. Sprung saddles
.622	Cast iron, steel spokes	.24	Backrests (and other supports) on saddles
.623	Cast spokes	.25	Auxiliary seats, passenger, pillion seats (and accessories: handgrips etc)
.624	Pressed spokes		
.625	Spokes of steel wire	.252	For adults
.627	Wheel-discs (spokeless wheels)	.256	For children
.63	Sprung spokes	.28	Saddle pillars
.631	With springs	.3	Devices for mounting bicycles etc. Footrests
.632	Hydraulic	.5	Steering gear
.635	Pneumatic	.51	Kinds of steering gear
.64	Hubs. Wheel centres	.511	With worm screw
.65	Sprung hubs	.512	With screw and sector
.651	With springs	.513	With levers
.652	Hydraulic	.514	With other rigid transmissions with tooth gearing
.655	Pneumatic	.515	With flexible transmission
.7	Various devices. Protection against skidding	.52	Articulation systems for steering gear
	→624.144.8 Devices to prevent and minimize slipping and skidding on ice and snow—Civil engineering	.53	Devices to prevent instability of wheels and axles
.72	Anti-skid devices (on road surface). Devices against derailment	.532	To prevent front wheel wobble
	<i>For anti-skid devices on vehicle</i>	.533	Steering dampers. Shock absorbers. Stabilizers
	→629.11.012.517.5, 629.11.012.521.3, 629.11.012.558.73		
.73	Lifting and support devices for vehicles: jacks, ramps etc. Devices for turning on the spot. Devices for negotiating hollows, ditches, etc, <i>e.g.</i> on assault vehicles: fascines, articulated supports	.54	Devices for oblique positioning of the chassis when cornering
.732	Lifting devices: jacks, ramps etc	.9	Teaching devices (in the vehicle), for driving instruction
	→621.886 Short lift raising devices (jacks etc)—Mechanical engineering	.015	Vehicle supports
.734	Turning devices: turntables	.61	For bicycles
.74	Caps and covers as protection against dust (on wheels, running gear)	.611	Bicycle stands, racks
.75	Security, locking devices for wheels. Safety keys	.2	Wooden stands
.8	Suspension, shock absorption systems. Springs	.3	Metal stands
.81	Theory of suspension	.32	Horizontal
.812	Horizontal and vertical suspension	.34	Oblique
.813	Shock transmission. Shock absorption	.37	Vertical (wall-mounted)
.814	Oscillations. Vibrations	.4	Concrete stands
.816	Dimensions. Loading. Stressing	.42	Concrete slabs and areas with slots (for wheels)
.817	Construction principles. Calculation	.7	Supports for pedals: kerb holes (Copenhagen)
.82	Hydraulic suspension	.612	Stands attached to the bicycle. Side supports
.83	Pneumatic suspension	.613	Supports on the pedals. Supports usable as luggage carriers
		.614	Balancing devices. Bicycle stabilizers with wheels

629.11.015.615	Other supporting devices for bicycles
.616	Devices for hanging up bicycles. Suspension devices
.69	Other kinds of vehicle support
.018	Observation, indication, warning equipment. Signals <i>The full subdivisions of this number are listed under 629.1.018</i>
.019	Various other devices
.4	Sand sprinklers
.5	Devices for increasing friction, adhesion.
	Magnets on rail vehicles
.6	Rail sprinkling devices. Devices for watering wheel flanges

629.11.02/.098	PROPULSION. EQUIPMENT. INSTALLATIONS. INSTRUMENTS. PERFORMANCE <i>The full subdivisions of these numbers are listed under 629.1.02/.098</i>
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Principal divisions (continued)

629.111	PRIMITIVE AND SIMPLE CONVEYANCES
.1	Conveyances carried by arm or on the back
.11	Conveyances for goods: panniers, slings, dossers etc
.112	For the head
.113	For the shoulders
.114	For the back
.115	For the arms
.12	Conveyances for persons: sedan chairs, litters, palanquins, stretchers etc
.3	Wheeled conveyances, pushed or pulled by hand: barrows, hand-carts
.31	Conveyances for goods
.311	Barrows with single axle and with ledge or platform or other device for retaining loads: (two-wheeled) trolleys, porters' barrows, luggage trucks, sack barrows
.312	Wheelbarrows (single-wheeled)
.313	Hand-barrows (two-wheeled, loaded centrally)
.314	Multi-axle hand-carts in general
.316	Multi-axle hand-carts with horizontal lifting platforms: lifting (stillage, pallet) trucks
.32	Conveyances for persons: wheeled sedans, rickshaws, wheelchairs (Bath chairs)
.35	Devices (on wheeled conveyances) for negotiating steps, stairs →629.111.45 Perambulators with devices for negotiating steps, stairs
.4	Perambulators (prams, baby-carriages)
.42	Adjustable, convertible perambulators, for sitting or for lying
.43	Perambulators convertible into other objects, e.g. sleds, cradles, swings
.45	Perambulators with devices for negotiating steps, stairs
.46	Perambulators with devices for rocking
.47	Perambulators with safety devices: to prevent the child from falling out (restrainers, guard rails etc); on the wheels (brakes, wheel locks etc)
.48	Accessories on perambulators: auxiliary seats, e.g. for person accompanying perambulator, when stationary; devices for amusing children etc
.5	Conveyances in which the load is borne directly by the axles
.7	Sliding conveyances: sledges, sleighs, toboggans
.71	Simple sledges
.712	For pushing

629.111.713	For dragging, pulling
.72	Sledges with sails (ice-yachts, ice-boats, ice-scooters)
.75	Wheeled vehicles convertible into sledges
.754	Sledges with runners replaceable by wheels (dirigible sleighs, bobsleighs)
.758	Devices for converting sledges into wheeled vehicles
.76	Sledges according to number of runners
.761	With single runner
.762	With two runners
.78	Non-skid devices for control, steering of sledges. Devices for preventing lateral (sideways) skid
.8	Transport on rollers

629.112	ANIMAL-DRAWN VEHICLES →685.1 Saddlery. Harness making <i>Further particulars may be denoted by colon combination, e.g.</i> 629.112:343.8 Animal-drawn prison vans
.1	Two-wheeled vehicles: hansoms (hansom cabs, cabriolets), gigs, dog-carts, (English) buggies
.18	Balancing devices, for reducing the burden on the draught animal
.3	Vehicles with more than two wheels
.31	Goods (freight) vehicles: trucks, carts, vans, wagons
.32	Passenger vehicles: carriages, cabs, coaches, chaises, phaetons, barouches, broughams, wagonettes
.5	Passenger vehicles for many passengers, for communal travel: stagecoaches, diligences, brakes, charabancs, (horse) omnibuses
.6	Special-purpose goods vehicles, trade vehicles: drays, merchandise (delivery) vehicles, stalls, mobile shops
.7	Vehicles for particular kinds of freight, e.g. cattle trucks, timber trucks
.8	Safety devices for draught animals
.82	Devices for instant release of the animal
.83	Devices for simultaneous release of the shaft and application of the brake
.84	Devices for preventing the animal from falling
.85	Devices for preventing the animal from bolting
.86	Devices for protecting (shielding) the animal

629.113	MOTOR VEHICLES (MECHANICALLY POWERED VEHICLES). AUTOMOBILE ENGINEERING
.1	Precursors and early types of motor vehicle, e.g. muscle-driven (manual, pedal drive), spring-powered, steam-powered
.2	Steam-powered road vehicles →621.12/.17 Steam engines
.21	Coal-fired
.22	Oil-fired
.23	Non-fired, without furnace (with stored steam)
.24	Vehicles powered by compressed air or other non-flammable gas
.241	With compressed air in containers
.242	With compressed air from pipes, hoses
.244	With compressed carbon dioxide
.3/.5	Vehicles with internal combustion engines →621.43 Internal combustion engines
.3	Vehicles with gas engines, with gas production on the vehicle

629.113.33	Using gas generated from high-grade fuels, <i>e.g.</i> anthracite	629.118.26	Toy cycles. Scooters
.34	Using gas generated from low-grade fuels	.3	Two-wheeled vehicles. Bicycles in general
.342	From fuels with high specific volume, <i>e.g.</i> wood gas	.31	Bicycles for one rider
.344	From fuels with high water content, <i>e.g.</i> peat gas	.32	Two-seater bicycles (tandems)
.4	Vehicles with gas engines, using stored, compressed gas	.33	Three-seater bicycles
.43	Using coal gas or other gas under high pressure	.34	Four-seater bicycles. Other multi-seater bicycles
	629.113.43 $\cong$ 62–62	.35	Motorized bicycles (mopeds). Motor-assisted bicycles
.45	Using coal gas or other gas under low pressure (balloon gas)	.354	With auxiliary wheels at the side or back
	629.113.43 $\cong$ 62–62	.355	With motor within the wheels or axles
.5	Vehicles with internal combustion engines burning liquid or pulverous fuel	.356	With motor above the front or back wheel (friction drive)
.51	With light-oil-burning engines (petrol engines)	.358	With bodywork, carriage-work
.52	With heavy-oil-burning engines (diesel engines)	.38	Single-axle bicycles (one wheel alongside the other)
.6	Electrically-powered motor vehicles	.6	Motorcycles (motor-bicycles)
.61	With external current supply in general	.68	Motor-scooters
.62	With overhead current supply (overhead lines, cables)	.7	Sidecars. Light trailers and ancillary vehicles
.63	With underground current supply	.72	Pushed, front-mounted vehicles
.64	With ground-level current supply (surface contacts)	.73	Sidecars, side-mounted vehicles. Attachment devices
.65	With current storage by accumulators (batteries)	.74	Trailers, rear-mounted vehicles. Attachment devices
.68	With mixed electric propulsion, <i>e.g.</i> with overhead lines, accumulator and/or diesel-electric motor		
.7	Vehicles with other mixed propulsion systems	629.119	INSTALLATIONS AND DEVICES FOR SERVICING OF VEHICLES
.71	With internal combustion engine and electric motor		→725.382 Service stations, repair shops – Architecture
629.114	MOTOR VEHICLES ACCORDING TO PURPOSE	.2	Fixed cleaning and repair installations: vehicle-washing plant, inspection and repair pits, garage equipment
	629.114 $\cong$ 629.1–4, <i>e.g.</i>		→725.383 Cleaning, washing installations – Architecture
	629.114.2 Tractors. Towing vehicles	.23	Fixed vehicle-lifting devices: hoists, jacks
	.3 Towed vehicles. Trailers. Articulated vehicles. Trains	.4	Service vehicles. Recovery, lifting vehicles, cranes
	.4 Freight vehicles. Lorries, vans etc	.5	Pumps, filling (fuelling, refuelling) installations. Petrol pumps
	.5 Public passenger transport. Omnibuses etc		→725.384 Filling stations – Architecture
	.6 Private vehicles. Private cars etc	629.12	WATER TRANSPORT. WATER CRAFT. SHIPBUILDING. BOATBUILDING
	.68 Cars for instruction. Driving-school cars		→623.8/.9 Naval engineering
	.73 Agricultural vehicles		624.145 Damage caused by floating ice – Civil and structural engineering
	.795 Vehicles for gauging, tunnel inspection etc		
	.8 Light vehicles		
	.82 Racing vehicles		
629.115	MOTOR VEHICLES ACCORDING TO NUMBER OF WHEELS (MORE THAN TWO)		Special auxiliary subdivisions for 629.12
.3	Three-wheeled vehicles	629.12.01	PARTS OF THE CRAFT OTHER THAN THE PROPULSION SYSTEM
.4	Four-wheeled vehicles	.011	Structural parts: hull, superstructure
	<i>This number should only be used when four-wheeled vehicles are considered primarily in contrast to vehicles with other numbers of wheels</i>	.1	Shapes. Forms. Hull construction
.6	Six-wheeled vehicles	.11	Craft according to kind of deck
.7	Vehicles with more than six wheels	.111	Single-deck craft
.8	Tracked vehicles	.112	Spar-deck craft
629.118	VEHICLES WITH ONE OR TWO WHEELS	.113	Shade-deck craft
.1	Early types of cycle. Velocipedes	.114	Shelter-deck craft
.2	One-wheeled vehicles. Toy cycles. Scooters	.12	Craft according to deck line or position of superstructure
.21	One-wheeled vehicles (unicycles, mono-cycles)	.121	Flush-deck craft
		.122	Well-deck craft
		.129	Craft with other deck lines
		.13	Other kinds. Craft with turret decks. Craft with trunk decks
		.17	Special hull shapes
		.171	Craft with buoyancy devices
		.172	Craft with rollers
		.173	Hulls of cylindrical section
		.174	Craft with multiple keels
		.2	Craft according to material
		.21	Wooden craft. Caulking of seams, joints, rabbets, grooves
		.22	Steel craft. Hull plating. Superstructure. Longitudinal bulkheads. Transverse bulkheads. Cellular construction. Double bottoms

629.12.011.23	Craft of wood and steel	629.12.011.562.1	Engine room
.25	Craft of reinforced concrete	.2	Boiler room
.28	Craft of other materials	.3	Stoke hold
.5	Space allocation in craft. Layout	.563	Funnels
.51/.54	Spaces for freight, for passengers	.564	Ash hoists
.51	Freight spaces. Holds	.565	Workshops
	→629.1-44 Freight vehicles and craft	.567	Tunnels
.514	Spaces for mail, luggage, valuables, money, precious metals. Strongrooms	.2	Shaft tunnels
.515	Spaces for explosives. Powder magazines, magazines for shot, shells, rockets	.3	Pipe tunnels
.516	Spaces for cold storage. Refrigerated chambers (for perishable freight)	.569	Engineer's stores
	→629.12.011.554.911 Cold-storage chambers (for provisions on voyage)	.57	Accessories. Companionways. Gangways. Gangplanks. Stairs. Steps. Rope ladders
.52	Storage spaces. Bunkers. Tanks	.58	Deck houses. Conning towers (on sub-marines)
.521	Forward spaces. Forehold, forepeak	.7	Parts of the hull
.522	After spaces. Afterhold	.71	Bottoms. Bottom boards. Bilges. Centre-line keelson
.523	Double bottoms	.72	Struts. Strakes. Frames
.524	Water storage space. Water tanks	.722	Frames. Reverse frames. Cant frames
.525	Fuel storage space	.723	Deck beams. Keelsons
.2	For solid fuels: fuel bunkers	.724	Deck supports
.4	For liquid fuels: fuel tanks	.73	Deck plating. Wooden decks in steel ships
.53	Spaces (accommodation) for passengers	.74	Hull skin. Wood planking. Protective plating.
	→629.1-45 Public passenger transport vehicles and craft		Guard-rails
.531	Living, sleeping spaces: cabins	.745	Bilge keels
.532	Assembly spaces: saloons	.75	Watertight bulkhead construction for wood or steel craft
.54	Spaces (accommodation) for animals		→629.12.011.88 Sheathing (wood, steel). Bulkheads. Movable partitions
.55/.58	Spaces for crew, services, machinery, propulsion system	.753	Bulkhead doors
.55	Crew's quarters. Service areas	.76	Stem. Forestem. Afterstem. Sternpost.
.551	Crew's quarters		Screw stem
.1	Crew's cabins	.762	Bow. Stem
.2	Officers' mess	.763	Stern. Sternpost. Rudder post. Screw stem
.3	Crew's mess	.77	Keels
.552	Control, steering, navigation spaces	.78	Web frames. Ceiling
.1	Command areas. Captain's cabin. Bridge	.782	Ceiling battens. Pipe supports
.2	Look-out stations	.79	Handrails. Railing stanchions
.3	Wheelhouses	.8	Other structural parts
.4	Cable-lockers. Chain-lockers	.82	Bedplates
.5	First mate's office	.83	Portholes. Side scuttles
.6	Administrative offices	.84	Hatches. Hawse holes. Hatch covers. Sky-lights. Engine shafts
.9	Various other spaces	.85	Rudder frame
.91	Cable ducts	.87	Transverse and horizontal knee plates
.92	Paint stores	.88	Sheathing (wood, steel). Bulkheads. Movable partitions
.93	Flag lockers		→629.12.011.75 Watertight bulkhead construction
.94	Spaces for lamps, signals, beacons	.014	Propulsion, manoeuvring, steering, control devices. Sails
.554	Domestic spaces	.2	Sails. Rigging
.1	Ships' kitchens, galleys	.21	Masts. Spars. Yards. Booms
.2	Kitchen equipment. Larders, pantries	.22	Sails
.3	Laundries	.23	Rigging. Tackle. Cable. Ropes
.4	Lavatories. Washrooms. Bathrooms	.24	Fastenings and guides for ropes. Cleats. Bitts. Stopper-bolts. Blocks. Sheaves. Fair-leads. Bollards
.5	Bars		Steering, control devices. Interior control
	→629.12.011.532 Assembly spaces: saloons	.5	629.12.014.5/.54 ≅ 629.11.014.5/.54
.6	Hairdressing saloons. Barber-shops	.51	Kinds of control device
.7	Pursers' offices	.511	With worm-screw
.8	Chief steward's offices	.512	With screw and sector
.9	Storerooms	.513	With levers
.91	Storage for provisions, victuals, food	.514	With other rigid transmissions with tooth gearing
.911	Cold storage chambers (for provisions on voyage)		With flexible transmission
	→629.12.011.516 Spaces for cold storage	.515	Articulation systems for steering, control
.92	Linen stores	.52	Devices to counteract instability, shocks
.555	Spaces for hygienic, health services	.53	To counteract instability
.1	Hospital, infirmary, sanatorium space. Sick bay	.532	Steering dampers. Shock absorbers. Stabilizers
.2	Pharmacy space. Dispensary	.533	Devices for tilting the hull when steering in a curve
.556	Other service and crew spaces		
.1	Radio, telegraph cabins		
.2	Detention, imprisonment space. Cells, brig		
.56	Engine room. Boiler room. Tunnels		
.562	Engine room. Boiler room		

629.12.014.55	Sounding. Depth control in submarines →531.719.3 Measurement of depth— Physics →629.1.052 Instruments for measuring height, depth (altimeters, bathymeters)
.555	Automatic depth sounding. Automatic depth control
.57	Direction-finding devices. Devices for taking bearings
.575	Automatic direction-finding
.578	Auxiliary direction-finding
.6	Rudders. Elevators
.65	Elevators (to control diving of submarines)
.67	Rudders: arrangement, structure, fixing
.68	Active rudders. Screw gears as steering device (on all kinds of craft)
.7	Compensating gear, especially for sub- marines
.72	Control of water ballast
.77	Devices for compensating for fuel con- sumed, torpedoes discharged etc
.9	Devices for on-board navigational training
.015	Docking, mooring gear. Anchors
.64	Anchors. Anchor chains, accessories →629.12.011.552.4 Cable-lockers. Chain-lockers
.65	Mooring devices. Fenders. Buffet devices
.018	Observation, indicating, warning equipment. Signals <i>The full subdivisions of this number are listed under 629.1.018</i>
629.12.02/.098	PROPULSION. EQUIPMENT. INSTALLA- TIONS. INSTRUMENTS. PERFORMANCE <i>The full subdivisions of these numbers are listed under 629.1.02/.098</i>

Principal divisions (continued)

629.121	PRIMITIVE AND SIMPLE CRAFT
629.122	CRAFT FOR INLAND NAVIGATION. RIVER, FRESHWATER CRAFT
.1	Freshwater craft with mechanical propulsion
.11	With propulsion by mechanically transmitted human or animal (muscular) power
.12	Steam-powered, with paddle-wheel. Fresh- water paddle-steamers
.13	Steam-powered, with screw. Freshwater screw-steamers
.14	Freshwater craft with other kinds of mechanical propulsion
.15	Freshwater craft with traction by submerged chain. Chain-ferries
.155	Swinging chain-ferries (utilizing the force of the current)
.16	Freshwater craft with electric propulsion
.2	Devices for walking or floating on water: water-skis, floats, surf-boards etc
.3	Simple freight craft. Barges, rafts etc (towed, rowed, sailed)
.4	Freshwater craft specially designed for freight 629.122.4≈629.1-44 →629.12.011.51 Freight space. Holds
.5	Ferries (generally). Short-haul craft. Tran- shipment steamers
.6	Freshwater craft specially designed for passenger transport →629.1-45 Public passenger transport vehicles and craft 629.12.011.53 Spaces (accommoda- tion) for passengers
.8	Temporary bridging, e.g. for military pur- poses. Pontoon floats

629.123	SEA-GOING, OCEAN-GOING, SALT- WATER CRAFT. SHIPS <i>Craft similar to sea-going kinds, for use on large lakes and waterways, are also classed here</i>
.1	Sea-going craft propelled by manpower or by sail
.11	Ancient or primitive oar-propelled large craft. Galleys. Triremes
.12	Ancient or primitive sailing craft. Carracks. Nefs. Galleons. Caravels (carvels)
.13	Large sailing craft: single-deck, multi-deck
.132	Full-rigged ships (three or more masts, square-rigged)
.133	Barks (barques). Barquentines (three masts)
.135	Schooners generally (two or more masts)
.136	Topsail schooners
.137	Fore-and-aft schooners (gaff schooners)
.14	Special-purpose sailing craft. Cargo boats, e.g. colliers, grain ships →629.1-44 Freight (goods, cargo) vehicles and craft
.15	Tenders. Lighters. Scows (flatboats)
.16	Small sailing craft. Luggers. Cutters →629.124.72 Craft for hunting, fishing, e.g. smacks, trawlers
.18	Rafts for transporting timber. Log rafts.
.19	Trains of logs
.2	Vessels of special shape, e.g. oriental: junks, praus (prahus, proas)
.21	Sea-going craft with mechanical propulsion
.22	Sea-going paddle-steamers
.3	Sea-going screw-steamers
	Liners. Passenger craft. Mail boats. Packet boats →629.1-45 Public passenger transport vehicles and craft 629.12.011.53 Spaces (accommoda- tion) for passengers
.4	Sea-going freight craft. Cargo boats, ships
.42	With loading and unloading devices
.43	With special-purpose superstructure
.44	With freezing, refrigeration plant, e.g. for freezing catches on fishing boats
.5	Special purpose freight craft 629.123.5≈629.1-445, e.g. 629.123.56 Tankers
.6	Floating platforms for aircraft. Aircraft carriers
.8	Devices for sea transport of freshwater craft, e.g. combination of sea-going craft and floating dock →629.128.72 Floating Docks
629.124	TUGS. TRAINS. SPECIAL-PURPOSE CRAFT →626.7 Towage and propulsion on rivers and canals—Hydraulic engineering <i>Further particulars may be denoted by the special auxiliaries listed under 629.1 and 629.2, e.g.</i> 629.124.013 Couplings for tugs etc
.1	Towing and towing technique in general
.2	Tugs (tugboats)
.22	Freshwater, e.g. river tugs
.24	Sea-going tugs
.3	Trains of towed craft. Barge trains
.32	Freshwater trains, e.g. trains of riverboats
.34	Sea-going trains. Towed sea-going craft
.38	Steering, control devices for towed craft
.6/.9	Private craft. Special-purpose craft 629.124.6/.9≈629.1-46/-49, e.g. 629.124.7 Special-purpose craft

629.124.6/.9 (contd.)	629.124.72	Craft for hunting, fishing, e.g. smacks, trawlers	629.125.6	Accessories for rescue craft
	→639.2.06	Fishing vessels—Animal produce	.63	Lifeboat-launching devices
	.722	Whaling craft (whaleboats, whalers)	.64	Devices for securing lifeboats to the parent craft
	.77	Firefighting craft (fire-boats, firefloats)	.65	Davits. Swinging davits
	.79	Other special-purpose craft. Service craft	.66	Hoists. Tackle. Winches. Windlasses
	.791	Craft for use in ice	.67	Devices for casting off. Handling of tackle
	→629.12.011	Structural parts: hull, super-structure	.8	Craft based on the gliding principle. Hydrofoils. Hydroplanes
	.2	Icebreakers	629.127	SUBMARINES
	→627.73	Ice-breaking operations	.4	Special-purpose submarines. Submarines with special instrumentation
	.4	Strengthened, armoured craft for use in ice	629.128	INSTALLATIONS FOR CONSTRUCTION AND REPAIR OF CRAFT. SHIPYARDS, BOATYARDS. DOCKS
	.8	Light craft	.1	Shipyards and boatyards generally
	.82	Racing craft, e.g. racing yachts	.2	Slipways. Scaffolding for building and repairing craft
	.9	Other matters	.3	Stocks
	.98	Remote-controlled craft	.4	Hauling slips
629.125		PLEASURE CRAFT. SPORTS CRAFT. SMALL BOATS	.5	Docks. Wet docks. Dry, graving docks
.1		Sailing boats. Rowing-boats	.6	Dock installations and equipment
.11		Ancient and primitive small boats. Dugouts, canoes, coracles	.62	Drainage pumps
.12		Sailing boats (sailboats). Sail yachts	.63	Ejector pumps
.122		Simple sailing boats without centre-board or keel	.64	Sluices. Floodgates
.124		Sailing boats with lee-boards	.66	Indicating devices for sluices
.125		Sailing boats with centre-board	.7	Special kinds of dock
.126		Sailing boats with keel. Keel yachts	.72	Floating docks
.13		Rowing-boats (rowboats). Paddling-boats	→629.123.8	Devices for sea transport of freshwater craft
		<i>Further particulars may be denoted by the special auxiliary subdivisions listed under 62, e.g.</i>	.74	Sectional docks
	629.125.13–78	Safety devices on rowing and paddling boats, e.g. stabilizers, shock absorbers	.78	Construction, building docks
.132		Ordinary rowing-boats	629.129	RAISING OF SUNKEN CRAFT. RECOVERY OF WRECKS
.133		Racing boats. Gigs. Skiffs. Single scullers. Pairs. Fours. Eights	.2	Lifting, raising devices. Salvage craft
.134		Paddling-boats	.22	Lifting devices using pontoons
.135		Canoes	.23	Lifting by means of buoys or vertical floating devices
.14		Collapsible, inflatable boats etc	.24	Lifting by means of air-bags, bladders
.142		Collapsible (frame-and-cover) boats	.25	Lifting by injection of air (into the sunken craft)
.143		Folding boats	.26	Use of caissons (coffer-dams) to enclose wrecks in shallow water: drying, righting of wrecks
.144		Inflatable boats	.27	Lifting by means of nets, hawsers, steel cables
.145		Simple buoyancy devices for swimming, bathing, life-saving: water-wings, lifebelts, life-jackets etc	.28	Lifting by means of diving bells (surrounding the wreck)
.15		Oarsmen's seats. Thwarts	.29	Other lifting methods, e.g. by aeronautical devices, balloons
.151		Fixed seats. Thwarts	.3	Various other matters concerning wrecks
.152		Sliding, rolling seats	.32	Lifting-docks
.2		Small boats with mechanical propulsion	.33	Fixing of buoys, caissons, chains etc with electromagnets
.21		Early mechanically propelled boats	.34	Fixing of buoys, chains etc to the hull by mechanical means
.22		Motorboats generally. Motor yachts, (cabin) cruisers	.35	Devices for passing cables, chains etc under the wreck for lifting
.23		Small open motor boats	.42	Devices for indicating the position of wrecks and other sunken objects. Marker buoys
.3		Small boats with mixed propulsion, with auxiliary system, e.g. motor and oars, motor and sails	.44	Devices for releasing, refloating stranded craft, craft run aground
.5		Rescue craft. Rescue devices	.46	Devices for searching for, locating wrecks, e.g. trailing grapnels
.51		Ordinary rescue craft. Lifeboats	.47	Rescue, escape equipment for submarines
.52		Unsinkable boats	629.13	Aeronautical engineering. Aircraft [cancelled]
.53		Rescue floats. Rescue rafts, life-rafts	.011	→629.73
.54		Unsinkable furniture, e.g. beds, tables, chairs, bunks, as rescue devices	.012	Structural parts (lighter-than-air craft) [cancelled]
.55		Parts of craft convertible into rescue devices	.013	→629.7.02, 629.733
			.014	Structural parts (heavier-than-air craft) [cancelled]
			.3	→629.7.02, 629.734/735
			.4	Coupling and towing gear (gliders, targets) [cancelled]→629.7.028
				Lifting and control members [cancelled]→629.7.025
				Wings [cancelled]→629.7.025.1
				Tail units. Fixed tailplanes. Fins [cancelled]
				→629.7.025.17