

This heading comprises only the following subject matter:

- . construction, arrangements, and adaptations of barometric and other fluid-pressure and vacuum gauges
- . devices and arrangements affording an alarm or otherwise signalling a notification of a predetermined value of fluid-pressure, and for use with unspecified apparatus
- . indicators for determining work and energy of steam, internal combustion, and other fluid-pressure engines from the condition of the working fluid

but does not include the following subject matter, which is to be found in the headings indicated:

- . arrangements of, and methods of using, fluid-pressure and vacuum gauges and gauge fittings of ordinary construction for particular purposes or in particular apparatus—*headings for such purposes or apparatus*
- . calculating-apparatus for evaluating results from indicator diagrams—G4B, Mechanical calculating apparatus
- . condition-responsive tyre deflation/overinflation alarm systems — G4N, Supervisory, alarm and safety systems
- . electric measurement of fluid-pressure and vacuum—G1N, Electrophysical and electrochemical measurement &c
- . gauges in which a pressure difference in a fluid is determined by measuring the rate of flow associated with the pressure difference—G1R, Measuring fluid flow
- . piezo-electric crystals adapted and mounted to indicate pressure—G1N, Electrophysical and electrochemical measurement &c

The exclusion references listed in this heading are not exhaustive. Reference should be made to the appropriate general heading/s for processes, materials, elements or devices which may be more widely applicable than can appropriately be classified in this heading

Relationship with the Universal Indexing Schedules (heading U1S)

U1S is used, subject to its indexing rules, to record uses and applications of inventions classified here, except insofar as these are inherent in the assigned terms of this heading

Operative date of Key entries

The operative date of the terms in this heading is:

1. for all terms annotated by a marginal code, the Edition corresponding to that code
2. for all other terms, earlier than that of Edition A

To facilitate searches for combinations of features, throughout this heading each feature is indexed for which a coded term is available, irrespective of novelty

barometric and other fluid-pressure and vacuum gauges, alarms and signals—

L3F6

- . steam-engine and like indicators. *See* indicators &c
- . adjusting for effects of temperature
- . . thermometers arranged for simultaneous co-operation and reading with pressure gauges. *See* simultaneous co-operation &c (thermometers)

L3P

- . alarm and signal apparatus, with

L3V

- . alarms and signals for notifying pressure, for use with unspecified apparatus
- . aneroid type. *See* diaphragm &c

L3J

- . artillery and other crusher gauges

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L3C

- . Bourdon gauges
- . control of, adapting pressure gauges for—
- . . addition and subtraction of readings of several pressure gauges, provision for. *See* indicating-means
- . . measuring-instruments or meters, other than pressure gauges. *See* simultaneous co-operation &c
- . . other pressure gauges (apart from addition and subtraction of readings only). *See* simultaneous co-operation &c (instruments other than &c)

L3U1

- . . fluids (apart from pumps therefor)

L3U3

- . . pumps

L3U2

- . . unclassified apparatus
- . . crusher gauges. *See* artillery &c

L3N

- . . damping-arrangement
- . . vibration-dampers, construction of. *See* F2S, Energy absorbing and storing; vibrating

- . . . deriving pressure value from pressure-sensitive phenomena *other than* movement of solids or liquid elements supported by counteracting forces—
- L3Y1 . . . phenomena not due to temperature
- L3Y2 . . . temperature phenomena
- . . . diaphragm and other gauges having chambers with yielding walls—
- . . . Bourdon gauges. *See* Bourdon &c
- L3B1 . . . barometric type (comparing with vacuum)
- L3B2 . . . pressure-difference or relative type
- L3K . . . draught gauges
- . . . gravity-controlled gauges—
- . . . variably-immersed float and bell gauges. *See* hydrostatic &c
- L3R1 . . . barometric type (comparing with vacuum)
- . . . pressure-difference or relative type—
- L3R2B . . . with variable liquid column to unbalance mechanism for effecting indication
- L3R2A . . . unclassified
- . . . hydrostatic and other liquid-column gauges—
- . . . indicating by liquids in tubes in gauges *other than* of liquid-column type. *See* indicating-means
- . . . with variable liquid column to unbalance mechanism for effecting indication. *See* gravity-controlled &c
- . . . other than variable-immersion gauges—
- L3D1 . . . barometric type (comparing with vacuum)
- L3D2 . . . pressure-difference or relative type
- . . . variable-immersed float and bell gauges—
- L3E1 . . . barometric type (comparing with vacuum)
- L3E2 . . . pressure-difference or relative type
- . . . indicating-means—
- L3F1 . . . combination of pressure readings (addition or subtraction only)
- . . . combinations for absolute measurement. *See appropriate subdivisions for* barometric type
- . . . combinations for calibrating, checking, and testing. *See* testing
- . . . combinations involving formula or law. *See* modifying &c
- . . . combinations of several pressure-sensitive elements giving by intermediate gearing and other combining-means a single reading. *See* simultaneous co-operation &c (instruments *other than* &c)
- . . . for gauges *other than* gravity-controlled and hydrostatic or liquid-column—
- L3F4A . . . electric and magnetic means
- L3F4C . . . liquid-in-tube
- L3F4B . . . unclassified
- . . . for gravity-controlled gauges—
- L3F8B . . . derived from varying liquid level
- L3F8A . . . electric and magnetic means
- L3F8C . . . unclassified
- . . . for hydrostatic and other liquid-column gauges—
- L3F3A . . . electric and magnetic means for transforming liquid column height into indication
- L3F3C . . . reading liquid column directly
- L3F3B . . . unclassified
- L3F2 . . . illumination of
- . . . phosphorescent compositions for. *See* C4S, Luminescent materials &c
- L3F5 . . . particular readings. (*including* set-hands)
- L3T . . . integrating and other counting-apparatus, applications of
- . . . liquid-level gauges. *See* gravity-controlled &c; hydrostatic &c
- L3Q . . . maximum and minimum measurements, automatic
- . . . miscellaneous—
- L3X8 . . . adapting for ascertaining streamlines and variations of pressure in free fluids
- L3X19 . . . arranged to indicate refractive index
- L3X6 . . . barometric determination by pressure measurement of constant-velocity atmospheric current
- L3X1 . . . external measurement of internal pressure on animal and other flexible members (*including* pneumatic tyres)
- L3X18 . . . gauge applied to a receiver connecting two compressors in series withdrawing fluid from a container
- L3X12 . . . impulsive pressure of liquids upon solid bodies at impact, adapted to measure
- L3X4 . . . indication by touch
- L3X13 . . . measurement by balancing against steadily increasing or decreasing known pressure
- L3X10 . . . measuring osmotic pressure
- L3X17 . . . pressure acting on a piston separated from an indicating piston by a column of gas

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- L3X2 . . rate of change of pressure, measuring, and direction of change of pressure, indicating
- . . . instruments applicable to aircraft only, *e.g.* air-speed indicators, Mach meters, and altitude, rate-of-climb, vertical air-speed, turn-and-bank, angle of attack, and radio navigational instruments of types *for which specific provision is made. See sub-divisions for types, e.g.* Bourdon &c; diaphragm &c
- L3X7 . . special-section and other capillary tubing adapted for transmission of pressure to gauges
- L3X5 . . unspecified pressure gauges in lubricating systems
- L3X15 . . using redistribution of fluid between initially isolated parts of a system to derive initial pressure in one part
- L3X21 . . utilizing the critical flow characteristics of a choked orifice
- L3X20 . . vacuum indicator comprising differential gauge and pump
- L3X14 . . vapour pressure, arrangements for determining
- L3S . . modifying scale of readings, records, and integrations (*other than* simple magnifying and diminishing), with means for
 - . . mounting and fitting details of interest apart from type of gauge (*other than* adapting gauges for control purposes or for simultaneous co-operation or reading with other instruments)—
 - . . relief and safety valves and devices—
- L3H . . acting as gauges
- L3W . . combined with gauges
- L3L . . unclassified
- L3A2 . . piston-and-spring gauges
- L13 . . pneumatic tyres and other pressurised bodies, modifying and adapting gauges for use with; tyre deflation/overinflation sensors
 - . . gauges for measuring dimensions of tyres. *See* G1M, Determining dimensions and shapes
- L3G . . recording-apparatus, applications of
 - . . relief and safety valves and devices, combined with and acting as. *See* mounting &c
 - . . simultaneous co-operation or reading with other meters or measuring-instruments, adapting and arranging for—
 - . . instruments *other than* liquid-level, speed, and temperature measuring apparatus—
- L3F7A1 . . with co-operative intermediate mechanism to apply corrections
- L3F7A2 . . unclassified
 - . . speedometers—
- L3F7B1 . . with co-operative intermediate mechanism to apply corrections
- L3F7B2 . . unclassified
 - . . thermometers—
 - . . heat-sensitive means, applications of, for correcting pressure-gauge readings. *See* adjusting &c
- L3F7C1 . . with co-operative intermediate mechanism to apply corrections.
- L3F7C2 . . unclassified
 - . . water and other liquid-level indicators—
- L3F7D1 . . with co-operative intermediate mechanism to apply corrections
- L3F7D2 . . unclassified
 - . . siphon type. *See* hydrostatic &c
 - . . spring. *See* diaphragm &c; piston-and-spring &c
 - . . sum and difference of separately-measured pressures, indicating. *See* indicating means
- L3M . . testing
 - . . variably-immersed float and bell gauges. *See* hydrostatic &c
- L4 indicators for determining work and energy of steam, internal-combustion, and other fluid-pressure engines from condition of working-fluid
 - . . fluid-pressure gauging-means of interest apart from steam and other engine indicators. *See* barometric &c
 - . . recording-apparatus, construction of. *See* G1J, Expressing measurement &c