

ENGINEERING IN GENERAL

F15 FLUID-PRESSURE ACTUATORS; HYDRAULICS OR PNEUMATICS IN GENERAL

F15C FLUID-CIRCUIT ELEMENTS PREDOMINANTLY USED FOR COMPUTING OR CONTROL PURPOSES (transducers [F15B 5/00](#), {[F15B 21/00](#)}; fluid dynamics in general [F15D](#); computer comprising fluid elements [G06D](#), [G06G](#); {electric control by means of electro-hydraulic or electro-pneumatic amplifiers [G05B 7/02](#)})

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme

- CPC - 2020.08

- 1/06 . . Constructional details; Selection of specified materials {Constructional realisation of one single element; Canal shapes; Jet nozzles; Assembling an element with other devices, only if the element forms the main part ([F15C 5/00](#) takes precedence)}
- NOTE**
- Group [F15C 1/22](#) takes precedence over groups [F15C 1/08](#) - [F15C 1/20](#).
- 1/08 . Boundary-layer devices, e.g. wall-attachment amplifiers {coanda effect (fluid oscillators of pulse generators [F15B 21/12](#))}
- 1/10 . . for digital operation, e.g. to form a logical flip-flop, OR-gate, NOR-gate {, AND-gate; Comparators; Pulse generators}
- 1/12 . . . Multiple arrangements thereof for performing operations of the same kind, e.g. majority gates, identity gates {(static stores [G11C 25/00](#)); Counting circuits; Sliding registers}
- 1/14 . Stream-interaction devices; Momentum-exchange devices, e.g. operating by exchange between two orthogonal fluid jets {; Proportional amplifiers}
- 1/143 . . {for digital operation, e.g. to form a logical flip-flop, OR-gate, NOR-gate, AND-gate ([F15C 1/10](#) takes precedence)}
- 1/146 . . {multiple arrangements thereof, forming counting circuits, sliding registers, integration circuits or the like ([F15C 1/12](#) take precedence)}
- 1/16 . Vortex devices, i.e. devices in which use is made of the pressure drop associated with vortex motion in a fluid {(vortex chambers [F15D 1/0015](#); vortex chambers as resistances [F15C 1/02](#); vortex chambers associated with amplifiers for improving the switching time by interaction [F15C 1/14](#))}
- 1/18 . Turbulence devices, i.e. devices in which a controlling stream will cause a laminar flow to become turbulent {; Diffusion amplifiers}
- 1/20 . Direct-impact devices i.e., devices in which two collinear opposing power streams are impacted
- 1/22 . Oscillators
- 3/00 Circuit elements having moving parts (valves, construction of valves [F16K](#))**
- NOTE**
- Group [F15C 3/16](#) takes precedence over groups [F15C 3/02](#) - [F15C 3/14](#).
- 3/002 . {using fluid droplets or similar deformable bodies (using solid balls [F15C 3/06](#))}
- 3/005 . {using loose plates or foils (using diaphragms [F15C 3/04](#))}
- 3/007 . {using a spiral spring which allows fluid pass upon deformation (using reeds [F15C 3/08](#))}
- 3/02 . using spool valves
- 3/04 . using diaphragms {(using loose plates or foils [F15C 3/005](#)); connection of valves to inflatable elastic bodies [B60C 29/00](#)}
- 3/06 . using balls {or pill-shaped disks (using fluid drops or similar deformable bodies [F15C 3/002](#))}
- 3/08 . using reeds {(using spiral springs [F15C 3/007](#))}
- 3/10 . using nozzles or jet pipes {(fluid information or pulse transducers [F15B 5/00](#))}
- 3/12 . . the nozzle or jet pipe being movable
- 3/14 . . the jet the nozzle being intercepted by a flap
- 3/16 . Oscillators
- 4/00 Circuit elements characterised by their special functions**
- 5/00 Manufacture of fluid circuit elements; Manufacture of assemblages of such elements {integrated circuits}**
- 7/00 Hybrid elements, i.e. circuit elements having features according to groups [F15C 1/00](#) and [F15C 3/00](#)**