

SECTION F — MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING

F42 AMMUNITION; BLASTING

F42C AMMUNITION FUZES (blasting cartridge initiators F42B 3/10; chemical aspects C06C); **ARMING OR SAFETY MEANS THEREFOR** (filling fuzes F42B 33/02; fitting or extracting primers in or from fuzes F42B 33/04; containers for fuzes F42B 39/30) [5]

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FUZE-OPERATING PRINCIPLES

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| <p>1/00 Impact fuzes, i.e. fuzes actuated only by ammunition impact [1, 2006.01]</p> <p>1/02 • with firing pin structurally combined with fuze [1, 2006.01]</p> <p>1/04 • • operating by inertia of members on impact [1, 2006.01]</p> <p>1/06 • • • for any direction of impact [1, 2006.01]</p> <p>1/08 • • with delayed action after ignition of fuze (time fuzes F42C 9/00) [1, 2006.01]</p> <p>1/09 • • the fuze activating a propulsive charge for propelling the ammunition or the warhead into the air, e.g. in rebounding projectiles [5, 2006.01]</p> <p>1/10 • without firing pin [1, 2006.01]</p> <p>1/12 • • with delayed action after ignition of fuze (time fuzes F42C 9/00) [1, 2006.01]</p> <p>1/14 • operating at a predetermined distance from ground or target by means of a protruding member [1, 2006.01]</p> <p>3/00 Fuzes actuated by exposure to a liquid, e.g. sea-water (F42C 5/00 takes precedence; time fuzes F42C 9/00) [1, 2006.01]</p> <p>5/00 Fuzes actuated by exposure to a predetermined ambient fluid pressure [1, 2006.01]</p> <p>5/02 • barometric pressure [1, 2006.01]</p> <p>7/00 Fuzes actuated by application of a predetermined mechanical force, e.g. tension, torsion, pressure (by ammunition impact F42C 1/00; by exposure to a predetermined ambient fluid pressure F42C 5/00) [1, 2006.01]</p> | <p>7/02 • Contact fuzes, i.e. fuzes actuated by mechanical contact between a stationary ammunition, e.g. a land mine, and a moving target, e.g. a person (F42C 7/12 takes precedence) [1, 2006.01]</p> <p>7/04 • • actuated by applying pressure on the ammunition head [5, 2006.01]</p> <p>7/06 • • • and comprising pneumatic or hydraulic retarding means [5, 2006.01]</p> <p>7/08 • • of release type, i.e. actuated by releasing pressure from the ammunition head [5, 2006.01]</p> <p>7/10 • • of antenna type [5, 2006.01]</p> <p>7/12 • Percussion fuzes of the double-action type, i.e. fuzes cocked and fired in a single movement, e.g. by pulling an incorporated percussion pin or hammer (percussion caps F42C 19/10) [5, 2006.01]</p> <p>9/00 Time fuzes; Combined time- and percussion- or pressure-actuated fuzes; Fuzes for timed self-destruction of ammunition [1, 2006.01]</p> <p>9/02 • the timing being caused by mechanical means [1, 2006.01]</p> <p>9/04 • • by spring motor [1, 2006.01]</p> <p>9/06 • • by flow of fluent material, e.g. shot, fluids [1, 2006.01]</p> <p>9/08 • the timing being caused by chemical action, e.g. of acids [1, 2006.01]</p> <p>9/10 • the timing being caused by combustion [1, 2006.01]</p> <p>9/12 • • with ring combustion elements [1, 2006.01]</p> <p>9/14 • Double fuzes; Multiple fuzes [1, 2006.01]</p> <p>9/16 • • for self-destruction of ammunition [1, 2006.01]</p> |
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F42C

- 9/18 • • • when the spin rate falls below a predetermined limit, e.g. a spring force being stronger than the locking action of a centrifugally-operated lock [5, 2006.01]
- 11/00 Electric fuzes** (proximity fuzes F42C 13/00; electric igniters F42C 19/12) [1, 2006.01]
 - 11/02 • with piezo-crystal [1, 2006.01]
 - 11/04 • with current induction [1, 2006.01]
 - 11/06 • with time delay by electric circuitry [1, 2006.01]
- 13/00 Proximity fuzes; Fuzes for remote detonation** [1, 2006.01]
 - 13/02 • operated by intensity of light or similar radiation [1, 2006.01]
 - 13/04 • operated by radio waves [1, 2006.01]
 - 13/06 • operated by sound waves [1, 2006.01]
 - 13/08 • operated by variations in magnetic field [1, 2006.01]
- 14/00 Fuzes characterised by the ammunition class or type** (F42C 1/00, F42C 13/00, F42C 15/00 take precedence) [5, 2006.01]
 - 14/02 • for hand grenades [5, 2006.01]
 - 14/04 • for torpedoes, marine mines or depth charges (influenced marine mines F42B 22/04) [5, 2006.01]
 - 14/06 • for fall bombs [5, 2006.01]
 - 14/08 • for land mines [5, 2006.01]
- 15/00 Arming-means in fuzes; Safety means for preventing premature detonation of fuzes or charges** [1, 2006.01]
 - 15/16 • wherein the firing pin is displaced out of the action line for safety (F42C 15/40 takes precedence) [1, 2006.01]
 - 15/18 • wherein a carrier for an element of the pyrotechnic or explosive train is moved (F42C 15/40 takes precedence) [1, 5, 2006.01]
 - 15/184 • • using a slidable carrier [5, 2006.01]
 - 15/188 • • using a rotatable carrier [5, 2006.01]
 - 15/192 • • • rotatable in a plane which is parallel to the longitudinal axis of the projectile [5, 2006.01]
 - 15/196 • • • by the action of centrifugal or inertia forces on the carrier body, e.g. the carrier having eccentrically mounted weights or eccentric centre of gravity [5, 2006.01]
 - 15/20 • wherein a securing-pin or latch is removed to arm the fuze, e.g. removed from the firing pin (F42C 15/40 takes precedence) [1, 2006.01]
 - 15/21 • • using spring action (F42C 15/23 takes precedence) [5, 2006.01]
 - 15/22 • • using centrifugal force (F42C 15/23 takes precedence) [1, 2006.01]
 - 15/23 • • by unwinding a flexible ribbon or tape [5, 2006.01]
 - 15/24 • wherein the safety or arming action is effected by inertia means (F42C 15/196, F42C 15/20 take precedence) [1, 2006.01]
 - 15/26 • • using centrifugal force [1, 2006.01]
 - 15/28 • operated by flow of fluent material, e.g. shot, fluids (F42C 15/26 takes precedence) [1, 2006.01]
 - 15/285 • • stored within the fuze housing [5, 2006.01]
 - 15/29 • • operated by fluidic oscillators; operated by dynamic fluid pressure, e.g. ram-air operated [5, 2006.01]
 - 15/295 • • operated by a turbine or a propeller; Mounting means therefor [5, 2006.01]
 - 15/30 • • of propellant gases, i.e. derived from propulsive charge or rocket motor [1, 2006.01]
 - 15/31 • • generated by the combustion of a pyrotechnic or explosive charge within the fuze [5, 2006.01]
 - 15/32 • operated by change of fluid pressure (F42C 5/00, F42C 15/29 take precedence) [1, 2006.01]
 - 15/33 • • by breaking a vacuum or pressure container [5, 2006.01]
 - 15/34 • wherein the safety or arming action is effected by a blocking-member in the pyrotechnic or explosive train between primer and main charge (F42C 15/18, F42C 15/40 take precedence) [1, 2006.01]
 - 15/36 • wherein arming is effected by combustion or fusion of an element (F42C 15/31 takes precedence) [1, 2006.01]
 - 15/38 • wherein arming is effected by chemical action (F42C 3/00 takes precedence) [1, 2006.01]
 - 15/40 • wherein the safety or arming action is effected electrically [1, 2006.01]
 - 15/42 • • from a remote location, e.g. for controlled mines or mine fields [5, 2006.01]
 - 15/44 • Arrangements for disarming, or for rendering harmless, fuzes after arming, e.g. after launch [5, 2006.01]
- 17/00 Fuze-setting apparatus** [1, 2006.01]
 - 17/02 • Fuze-setting keys [1, 2006.01]
 - 17/04 • for electric fuzes [5, 2006.01]
- 19/00 Details of fuzes** (arming means, safety means for preventing premature detonation F42C 15/00) [1, 2006.01]
 - 19/02 • Fuze bodies; Fuze housings [1, 2006.01]
 - 19/04 • Protective caps [1, 2006.01]
 - 19/06 • Electric contact parts specially adapted for use with electric fuzes [1, 2006.01]
 - 19/07 • • Nose-contacts for projectiles or missiles [5, 2006.01]
 - 19/08 • Primers (initiators for blasting cartridges F42B 3/10); Detonators [1, 2006.01]
 - 19/085 • • Primers for caseless ammunition [5, 2006.01]
 - 19/09 • • Primers or detonators containing a hollow charge [5, 2006.01]
 - 19/095 • • Arrangement of a multiplicity of primers or detonators, dispersed around a warhead, one of the primers or detonators being selected for directional detonation effects [5, 2006.01]
 - 19/10 • • Percussion caps [1, 2006.01]
 - 19/12 • • electric [1, 2006.01]
 - 19/14 • • • operable also in the percussion mode [5, 2006.01]
- 21/00 Checking fuzes; Testing fuzes** [1, 2006.01]
- 99/00 Subject matter not provided for in other groups of this subclass** [2006.01]