

CPC COOPERATIVE PATENT CLASSIFICATION

F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING (NOTE omitted)

WEAPONS; BLASTING

F42 AMMUNITION; BLASTING (NOTES omitted)

F42D **BLASTING** (fuses, e.g. fuse cords, [C06C 5/00](#); {for obtaining fluid from wells [E21B 43/00](#); for mining or quarrying [E21C 37/00](#); for making tunnels or galleries [E21D 9/006](#)}; cartridges [F42B 3/00](#))

1/00	Blasting methods or apparatus, e.g. loading or tamping	3/00	Particular applications of blasting techniques {(explosive welding B23K 20/08 ; explosive bolts or actuators F42B 3/006 ; explosive valves F16K 13/06 ; cutting devices actuated by explosion B23D 15/145 ; pyrotechnical actuators F15B 15/19 ; switching devices actuated by explosion H01H 39/00)}
1/02	. Arranging blasting cartridges to form an assembly (adaptation of blasting cartridges therefor F42B 3/02)		
1/04	. Arrangements for ignition {(ignition systems for shaped charge perforators E21B 43/1185 ; ignition devices for seismic energy generators G01V 1/06)}	3/02	. for demolition of tall structures, e.g. chimney stacks
1/041	. . {Tools for adapting cartridges for the mounting of detonators (cartridges specially adapted for the mounting of detonators F42B 3/26)}	3/04	. for rock blasting
1/042	. . {Logic explosive circuits, e.g. with explosive diodes}	3/06	. for seismic purposes
1/043	. . {Connectors for detonating cords and ignition tubes, e.g. Nonel tubes (mounting of detonators in blasting cartridges F42B 3/26)}	5/00	Safety arrangements
1/045	. . Arrangements for electric ignition (dynamo-electric generators H02K)	5/02	. Locating undetonated charges
1/05	. . . Electric circuits for blasting	5/04	. Rendering explosive charges harmless, e.g. destroying ammunition ({ F42B 39/14 and F42B 39/20 take precedence } ; extracting primers, dismantling ammunition F42B 33/04 , F42B 33/06 ; chemical deactivating of explosives C06B 21/0091 }); Rendering detonation of explosive charges harmless
1/055	. . . specially adapted for firing multiple charges with a time delay	5/045	. . Detonation-wave absorbing or damping means
1/06	. . Relative timing of multiple charges ({ F42D 1/043 and } F42D 1/055 take precedence)	5/05	. . . Blasting mats
1/08	. Tamping methods; Methods for loading boreholes with explosives; Apparatus therefor	5/055	. . Silencing means for blasting operations
1/10	. . Feeding explosives in granular or slurry form; Feeding explosives by pneumatic or hydraulic pressure	5/06	. Unloading boreholes
1/12	. . Feeding tamping material by pneumatic or hydraulic pressure	99/00	Subject matter not provided for in other groups in this subclass
1/14	. . Hand-operated tamping or loading		
1/16	. . . Tamping tools		
1/18	. . Plugs for boreholes		
1/20	. . Tamping cartridges, i.e. cartridges containing tamping material (flexible or deformable blasting cartridges F42B 3/087)		
1/22	. . Methods for holding or positioning for blasting cartridges or tamping cartridges		
1/24	. . characterised by the tamping material		
1/26	. . . Tamping with foaming agents		
1/28	. . . Tamping with gelling agents		