

CPC COOPERATIVE PATENT CLASSIFICATION

H ELECTRICITY

(NOTE omitted)

H01 ELECTRIC ELEMENTS

(NOTES omitted)

H01T SPARK GAPS; OVERVOLTAGE ARRESTERS USING SPARK GAPS; SPARKING PLUGS; CORONA DEVICES; GENERATING IONS TO BE INTRODUCED INTO NON-ENCLOSED GASES (overvoltage protection circuits [H02H](#))

NOTE

In this subclass, the term "spark gaps" is used with the following meaning:

- enclosed or non-enclosed discharge device having cold electrodes and used exclusively to discharge a quantity of electrical energy in a small time duration.

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| 1/00 | Details of spark gaps | 4/18 | . . Arrangements for reducing height of stacked spark gaps |
| 1/02 | . Means for extinguishing arc | 4/20 | . . Arrangements for improving potential distribution |
| 1/04 | . . using magnetic blow-out | 7/00 | Rotary spark gaps, i.e. devices having one or more rotating electrodes |
| 1/06 | . . . with permanent magnet | 9/00 | Spark gaps specially adapted for generating oscillations |
| 1/08 | . . using flow of arc-extinguishing fluid | 11/00 | Spark gaps specially adapted as rectifiers |
| 1/10 | . . . with extinguishing fluid evolved from solid material by heat of arc | 13/00 | Sparking plugs |
| 1/12 | . Means structurally associated with spark gap for recording operation thereof | 13/02 | . Details |
| 1/14 | . Means structurally associated with spark gap for protecting it against overload or for disconnecting it in case of failure (H01T 1/15 , H01T 1/16 , H01T 1/18 take precedence; emergency protective circuit arrangements for spark gap arrestors H02H 7/24) | 13/04 | . . Means providing electrical connection to sparking plugs |
| 1/15 | . for protection against excessive pressure | 13/05 | . . . combined with interference suppressing or shielding means |
| 1/16 | . Series resistor structurally associated with spark gap | 13/06 | . . Covers forming a part of the plug and protecting it against adverse environment |
| 1/18 | . Electrolytic device structurally associated with spark gap | 13/08 | . . Mounting, fixing or sealing of sparking plugs, e.g. in combustion chamber |
| 1/20 | . Means for starting arc or facilitating ignition of spark gap | 13/10 | . . . by bayonet-type connection |
| 1/22 | . . by the shape or the composition of the electrodes | 13/12 | . . Means on sparking plugs for facilitating engagement by tool or by hand |
| 1/24 | . Selection of materials for electrodes (H01T 1/22 takes precedence) | 13/14 | . . Means for self-cleaning |
| 2/00 | Spark gaps comprising auxiliary triggering means (triggering circuits H01T 15/00) | 13/16 | . . Means for dissipating heat |
| 2/02 | . comprising a trigger electrode or an auxiliary spark gap | 13/18 | . . Means for heating, e.g. for drying |
| 4/00 | Overvoltage arresters using spark gaps (H01T 2/00 takes precedence; overvoltage protection circuits using spark gaps H02H 9/06) | 13/20 | . characterised by features of the electrodes or insulation |
| 4/02 | . Details | 13/22 | . . having two or more electrodes embedded in insulation (sparking plugs having two or more spark gaps H01T 13/46) |
| 4/04 | . Housings (H01T 4/06 takes precedence) | 13/24 | . . having movable electrodes (H01T 13/28 takes precedence) |
| 4/06 | . Mounting arrangements for a plurality of overvoltage arresters | 13/26 | . . . for adjusting spark gap otherwise than by bending of electrode |
| 4/08 | . structurally associated with protected apparatus (with switches H01H 9/14 ; with fuses H01H 85/44) | 13/28 | . . having spherically shaped electrodes, e.g. ball-shaped |
| 4/10 | . having a single gap or a plurality of gaps in parallel | 13/30 | . . . mounted so as to permit free movement |
| 4/12 | . . hermetically sealed | 13/32 | . . characterised by features of the earthed electrode |
| 4/14 | . . Arcing horns (associated with insulators H01B 17/46) | 13/34 | . . characterised by the mounting of electrodes in insulation, e.g. by embedding |
| 4/16 | . having a plurality of gaps arranged in series | 13/36 | . . characterised by the joint between insulation and body, e.g. using cement |

- 13/38 . . Selection of materials for insulation
- 13/39 . . Selection of materials for electrodes
- 13/40 . . structurally combined with other devices ([combined or associated with fuel injectors F02M 57/06](#); structurally combined with other parts of internal-combustion engines [F02P 13/00](#))
- 13/41 . . with interference suppressing or shielding means
- 13/42 . . with magnetic spark generators
- 13/44 . . with transformers, e.g. for high-frequency ignition
- 13/46 . having two or more spark gaps
- 13/462 . . {in series connection}
- 13/465 . . . {one spark gap being incorporated in the sparking plug}
- 13/467 . . {in parallel connection}
- 13/48 . having means for rendering sparks visible
- 13/50 . having means for ionisation of gap ([H01T 13/52 takes precedence](#))
- 13/52 . characterised by a discharge along a surface
- 13/54 . having electrodes arranged in a partly-enclosed ignition chamber
- 13/56 . characterised by having component parts which are easily assembled or disassembled
- 13/58 . Testing ([testing characteristics of the spark in internal-combustion engine ignition F02P 17/12](#))
- 13/60 . . of electrical properties
- 14/00 Spark gaps not provided for in groups [H01T 2/00](#) - [H01T 13/00](#) (devices providing for corona discharge [H01T 19/00](#))**
- 15/00 Circuits specially adapted for spark gaps, e.g. ignition circuits** ([ignition circuits for internal-combustion engines F02P](#); electric spark ignition for combustion apparatus [F23Q](#); protection circuits using spark gaps [H02H 9/06](#))
- 19/00 Devices providing for corona discharge (for charging electrographic elements [G03G 15/02](#))**
- 19/02 . Corona rings
- 19/04 . having pointed electrodes
- 21/00 Apparatus or processes specially adapted for the manufacture or maintenance of spark gaps or sparking plugs**
- 21/02 . of sparking plugs
- 21/04 . . Cleaning ([means for self-cleaning H01T 13/14](#); abrasive blasting devices for cleaning sparking-plugs [B24C 3/34](#))
- 21/06 . Adjustment of spark gaps ([sparking-plugs having movable electrodes for adjusting the gap H01T 13/26](#))
- 23/00 Apparatus for generating ions to be introduced into non-enclosed gases, e.g. into the atmosphere**