

CPC COOPERATIVE PATENT CLASSIFICATION

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.

1/00	Details of spark gaps	11/00	Spark gaps specially adapted as rectifiers
1/02	. Means for extinguishing arc	13/00	Sparking plugs
1/04	. . using magnetic blow-out	13/02	. Details
1/06	. . . with permanent magnet	13/04	. . Means providing electrical connection to sparking plugs
1/08	. . using flow of arc-extinguishing fluid	13/05	. . . combined with interference suppressing or shielding means
1/10	. . . with extinguishing fluid evolved from solid material by heat of arc	13/06	. . Covers forming a part of the plug and protecting it against adverse environment
1/12	. Means structurally associated with spark gap for recording operation thereof	13/08	. . Mounting, fixing or sealing of sparking plugs, e.g. in combustion chamber
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)	13/10	. . . by bayonet-type connection
1/15	. for protection against excessive pressure	13/12	. . Means on sparking plugs for facilitating engagement by tool or by hand
1/16	. Series resistor structurally associated with spark gap	13/14	. . Means for self-cleaning
1/18	. Electrolytic device structurally associated with spark gap	13/16	. . Means for dissipating heat
1/20	. Means for starting arc or facilitating ignition of spark gap	13/18	. . Means for heating, e.g. for drying
1/22	. . by the shape or the composition of the electrodes	13/20	. characterised by features of the electrodes or insulation
1/24	. Selection of materials for electrodes (H01T 1/22 takes precedence)	13/22	. . having two or more electrodes embedded in insulation (sparking plugs having two or more spark gaps H01T 13/46)
2/00	Spark gaps comprising auxiliary triggering means (triggering circuits H01T 15/00)	13/24	. . having movable electrodes (H01T 13/28 takes precedence)
2/02	. comprising a trigger electrode or an auxiliary spark gap	13/26	. . . for adjusting spark gap otherwise than by bending of electrode
4/00	Overvoltage arresters using spark gaps (H01T 2/00 takes precedence; overvoltage protection circuits using spark gaps H02H 9/06)	13/28	. . having spherically shaped electrodes, e.g. ball-shaped
4/02	. Details	13/30	. . . mounted so as to permit free movement
4/04	. Housings (H01T 4/06 takes precedence)	13/32	. . characterised by features of the earthed electrode
4/06	. Mounting arrangements for a plurality of overvoltage arresters	13/34	. . characterised by the mounting of electrodes in insulation, e.g. by embedding
4/08	. structurally associated with protected apparatus (with switches H01H 9/14 ; with fuses H01H 85/44)	13/36	. . characterised by the joint between insulation and body, e.g. using cement
4/10	. having a single gap or a plurality of gaps in parallel	13/38	. . Selection of materials for insulation
4/12	. . hermetically sealed	13/39	. . Selection of materials for electrodes
4/14	. . Arcing horns (associated with insulators H01B 17/46)	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)
4/16	. having a plurality of gaps arranged in series	13/41	. . with interference suppressing or shielding means
4/18	. . Arrangements for reducing height of stocked spark gaps	13/42	. . with magnetic spark generators
4/20	. . Arrangements for improving potential distribution	13/44	. . with transformers, e.g. for high-frequency ignition
7/00	Rotary spark gaps, i.e. devices having one or more rotating electrodes	13/46	. having two or more spark gaps
9/00	Spark gaps specially adapted for generating oscillations	13/462	. . {in series connection}
		13/465	. . . {one spark gap being incorporated in the sparking plug}
		13/467	. . {in parallel connection}

H01T

- 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 ([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**