

Title (en)

CORONA IGNITION DEVICE WITH IMPROVED ELECTRICAL PERFORMANCE

Title (de)

KORONAZÜNDUNGSVORRICHTUNG MIT VERBESSERTER ELEKTRISCHER LEISTUNG

Title (fr)

DISPOSITIF D'ALLUMAGE À EFFET COURONNE À PERFORMANCES ÉLECTRIQUES AMÉLIORÉES

Publication

**EP 3501073 A1 20190626 (EN)**

Application

**EP 17754985 A 20170811**

Priority

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- US 2017046420 W 20170811

Abstract (en)

[origin: WO2018034952A1] A corona igniter (20) comprises a central electrode (22) surrounded by an insulator (26), which is surrounded by a conductive component. The conductive component includes a shell (34) and an intermediate part (36) both formed of an electrically conductive material. The intermediate part is a layer of metal which brazes the insulator to the shell. An outer surface (50) of the insulator presents a lower ledge (52), and the layer of metal can be applied to the insulator above the lower ledge prior to or after inserting the insulator into the shell. The conductive inner diameter  $D_c$  is less than an insulator outer diameter  $D_{io}$  directly below the lower ledge such the insulator thickness  $t_i$  increases toward the electrode firing end (40). The insulator outer diameter is also typically less than the shell inner diameter  $D_{is}$  also that the corona igniter can be reverse-assembled.

IPC 8 full level

**H01T 13/36** (2006.01); **H01T 13/44** (2006.01); **H01T 13/50** (2006.01); **H01T 21/02** (2006.01)

CPC (source: CN EP KR)

**H01T 1/22** (2013.01 - KR); **H01T 13/36** (2013.01 - CN EP KR); **H01T 13/39** (2013.01 - KR); **H01T 13/44** (2013.01 - CN EP KR); **H01T 13/50** (2013.01 - CN EP KR); **H01T 21/02** (2013.01 - CN EP KR)

Citation (search report)

See references of WO 2018034952A1

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