

Title (en)

CORONA IGNITION DEVICE AND ASSEMBLY METHOD

Title (de)

KORONAZÜNDUNGSVORRICHTUNG UND MONTAGEVERFAHREN

Title (fr)

DISPOSITIF D'ALLUMAGE À EFFET CORONA ET PROCÉDÉ D'ASSEMBLAGE

Publication

EP 3338332 B1 20210224 (EN)

Application

EP 16757812 A 20160819

Priority

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- US 2016047678 W 20160819

Abstract (en)

[origin: WO2017031390A1] A reversed-assembled corona igniter including an insulator, central electrode, and metal shell, wherein an outer diameter of the insulator increases adjacent a lower end of the metal shell to achieve an electrical advantage is provided. In addition, the insulator maintains strength because it is not placed under tension during or after assembly, or once disposed in an engine. To achieve the increase in insulator outer diameter, the insulator includes a lower shoulder adjacent the shell firing end. An intermediate part, such as braze and/or a metal ring, is disposed between the insulator outer surface and the shell adjacent the shell firing end. To prevent tension in the insulator, the insulator can be supported at only one location between the insulator upper end and the insulator lower end, for example along the intermediate part.

IPC 8 full level

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