

Title (en)

Apparatus for initiating combustion of fuel-air mixtures in an internal combustion engine.

Title (de)

Vorrichtung zum Initiieren von Verbrennung in einer Brennkraftmaschine.

Title (fr)

Dispositif d'initiation de la combustion des mélanges air-essence dans un moteur à combustion interne.

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Application

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Priority

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Abstract (en)

The invention relates to an apparatus for igniting the combustion of fuel-air mixtures in an internal combustion engine, comprising an electrical circuit including a capacitor (100, 108, 115) for storing a quantity of electrical energy, a discharge device having a pair of spaced electrodes (104, 120) forming a gap (118) across which an electrical discharge channel of alternating electrical current may be established for initiating said combustion using electrical energy stored in said capacitor (100, 108, 113), and a pair of electrical conductors for electrically connecting said capacitor (100, 108, 113) with said electrodes (104, 120) for forming the discharge channel, said capacitor (100, 108, 113) and said conductors being arranged concentrically around a common axis. In this apparatus an insulator body (114) is disposed between said electrodes (104, 120) and said capacitor (100, 108, 113) and between said conductors.

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