

Title (en)
ARRANGEMENT FOR FIRING SPARK GAPS

Title (de)
ANORDNUNG ZUR ZÜNDUNG VON FUNKENSTRECKEN

Title (fr)
ENSEMBLE D'AMORÇAGE D'ÉCLATEURS

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Abstract (en)
[origin: WO2020078622A1] The invention relates to an arrangement for firing spark gaps with a trigger electrode which is located on or in one of the main electrodes and is insulated with respect to this main electrode, wherein the trigger electrode can be electrically connected to a further main electrode via at least one voltage-switching or voltage-monitoring element, and there is an air gap between the trigger electrode and the further main electrode, wherein the trigger electrode forms a sandwich structure together with an insulating layer and a layer made of a material with lower conductivity than the material of one of the main electrodes. Furthermore, the insulating layer is embodied as a thin film or layer of coating agent and the layer is composed of the material with the lower conductivity is in contact with one of the main electrodes or rests on said electrode. According to the invention, in order to conduct away energetically weak overvoltage events without triggering the spark gap formed between the main electrodes, the insulating layer of the sandwich structure is interrupted outside the firing region and/or an electrical component which influences the triggering behaviour is connected between the trigger electrode and the associated main electrode.

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