Title (en)

IGNITION TRANSMISSION CHARGE FOR A PROPELLANT CHARGE

Publication

EP 0306616 A3 19900711 (DE)

Application

EP 88107278 A 19880506

Priority

DE 3730530 A 19870911

Abstract (en)

[origin: EP0306616A2] Hitherto known ignition transmission charges can be used to only a restricted extent because of their impact sensitivity to extreme loads such as occur as a result of acceleration processes during the feed of propellent-charge modules in high-calibre mortars, preferably guns. The new ignition transmission charge will withstand extreme impact loads and, furthermore, guarantee a likewise advantageous full ignition, and the supporting tube encasing the ignition charge will contribute to increasing the energy balance. <??>For this purpose, the ignition transmission charge 1 for a propellent charge 16 arranged in a propellent-charge module 14 consists of a high-energy propellent-charge powder with a heat quantity of 3 kJ/g to 4.5 kJ/g and a supporting tube 2 encasing the ignition transmission charge and consisting of normal compression-moulded propellent-charge powder. The ignition transmission charge 1 and supporting tube 2 are coaxially arranged mirror-symmetrically and rotationally symmetrically inside the propellent-charge module 14 and form at least one free ignition channel 17. The ignition transmission charge 1 can, for example, be connected as an extruded tube 4 to the supporting tube 2 or be designed as a foil adhesively bondable to the inner face of the supporting tube or, for example, be injected directly onto the inner face of the supporting tube 2. To achieve a higher ignition sensitivity, the inner face of the ignition transmission charge 1 is provided, for example, with longitudinal or transverse grooves. By means of this connection together with the supporting tube 2, the ignition transmission charge, in a layer thickness s of between 1 mm and 10 mm set in relation to the diameter and length of the ignition channel 17, withstands extreme impact loads during the feed of propellent-charge modules. <IMAGE>

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F42C 19/08; F42B 5/38

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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