Title (en)

COLD FIREWORK EXCITATION DEVICE FOR COLD FIREWORK ERUPTION APPARATUS AND COLD FIREWORK ERUPTION APPARATUS

Title (de)

KALTFEUERWERKSERREGUNGSVORRICHTUNG FÜR KALTFEUERWERKSERUPTIONSVORRICHTUNG UND KALTFEUERWERKSERUPTIONSVORRICHTUNG

Title (fr)

DISPOSITIF D'EXCITATION DE FEU D'ARTIFICE FROID POUR APPAREIL D'ÉRUPTION DE FEU D'ARTIFICE FROID, ET APPAREIL D'ÉRUPTION DE FEU D'ARTIFICE FROID

Publication

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Application

EP 15907732 A 20151230

Priority

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Abstract (en)

[origin: EP3372950A1] A cold firework excitation device for a cold firework ejection apparatus and a cold firework ejection apparatus. The cold firework excitation device comprises a heating mechanism (1) for gradually heating metal powder (5) during a conveying process, an ignition mechanism (2) for exciting and igniting the heated metal powder (5) by means of airflow, and an ejection mechanism (3) for ejecting the ignited metal powder (5) by using the airflow from the ignition mechanism; an output end of the heating mechanism (1) is communicated with the ignition mechanism (2); an output end of the ignition mechanism (2) is communicated with the ejection mechanism (3); the airflow from the ignition mechanism (2) is outputted towards the ejection mechanism (3); the ejection mechanism (3) is provided with an ejection port (4). By means of the method, the whole process does not require loading of gunpowder, the discharge of the fireworks is safe and does not generate polluted smoke, and after the metal powder is erupted, the metal powder quickly cools down and burns out and does not cause any hidden danger.

IPC 8 full level

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