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UNITED STATES PATENT OFFICE

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BLASTING CARTRIDGE, PERCUSSION CAP, DETONATOR, DETONATING FUSE, AND THE LIKE

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2, 4, 6-trinitro 1, 3, 5-triazidobenzene can be suitably employed as priming in detonating caps, if the compression pressure does not exceeds 300 kg. cm²; otherwise there is a rapid decrease in shattering power and priming force.

The same powerful action which is obtained with the type of detonating caps in which highly compressed 2, 4, 6-trinitro 1, 3, 5-triazidobenzene is combined with highly compressed lead azide, is also obtained with detonating caps, in which use is made, as secondary filling, of highly compressed 2, 4, 6-trinitro 1, 3, 5-triazidobenzene (compression pressure of 300 kg. cm² up to 2000 kg. cm² and more) and as priming filling a small length of slightly compressed 2, 4, 6-trinitro 1, 3, 5-triazidobenzene. 0.05 grms. to 0.1 grms. of this substance, which has been compressed under a pressure of 300 kg. cm² is suitable for the purpose.

As secondary filling in place of highly compressed 2, 4, 6-trinitro 1, 3, 5-triazidobenzene, use can also be made of trinitrotoluene, tetril or other shattering substance; the shattering power of the detonating caps is naturally correspondingly less. 0.5 grms. 2, 4, 6-trinitro 1, 3, 5-triazidobenzene is sufficient for complete priming.

What I claim is:—

1. A method of producing blasting cartridges and the like, consisting in filling the detonating cap with compressed 2, 4, 6-trinitro 1, 3, 5-triazidobenzene, serving as secondary filling, and ramming thereupon with a pressure not exceeding 300 kg. cm² a priming consisting of 0.05 to 0.2 grms. of 2, 4, 6-trinitro 1, 3, 5-triazidobenzene, as set forth.

2. A method of producing blasting cartridges and the like, consisting in filling the detonating cap with compressed 2, 4, 6-trinitro 1, 3, 5-triazidobenzene, serving as secondary filling, ramming thereupon with a pressure not exceeding 300 kg. cm² a priming consisting of 0.05 to 0.02 grms. of 2, 4, 6-trinitro 1, 3, 5-triazidobenzene, and pressing thereon a protective cap with aperture, as set forth.

3. A method of producing blasting cartridges, detonators and the like, consisting in filling a detonating cap with compressed trinitrotoluene, tetryl or other shattering substance (high explosive) serving as secondary filling, ramming thereupon with a pressure not exceeding 300 kg. cm² a priming consisting of 0.05 to 0.2 grms. of 2, 4, 6-trinitro 1, 3, 5-triazidobenzene and pressing thereon a protective cap with an aperture, as set forth.

In testimony whereof I have signed my name to this specification.

OLDŘICH TUREK.