N° 27,465 A.D. 1904

Date of Application, 16th Dec., 1904—Accepted, 19th Jan., 1905

COMPLETE SPECIFICATION.

"Improvements in Flash Powder for Producing Artificial Light for Photographic and other purposes."

We, HANS LÜTTKE, Doctor of Philosophy, PAUL ARNDT and ERNST LEOPOLD LÖWENGARD, trading as Dr. Lüttke & Arndt of No. 8 Zollstrasse, Wandsbek, in the German Empire, Manufacturers, do hereby declare the nature of this invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement:—

This invention relates to improvements in flash powder for producing artificial light for photographic and other purposes.

Flash powders containing magnesium, aluminium or both these metals as well as the oxides, carbonates, sulphates, nitrates, chlorates and perchlorates of alkalies and alkaline earths, are known.

This invention consists in mixing magnesium or aluminium or both with certain compounds of the heavy metals which serve in the capacity of carriers of oxygen. The compounds which are particularly suitable are the oxides, carbonates and sulphates particularly of iron, of leads and of copper which may either be used alone or in combination.

A suitable mixture is made as follows:—

Magnesium	100 parts
Aluminium	50 parts
Oxide of iron	30 parts
Carbonate of copper	20 parts
Sulphate of magnesia	5 parts

Flash light powders made according to this invention are not explosive and produce very little smoke.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed we declare that what we claim is:—

1. A flash light powder comprising in addition to one or more of the usual ingredients namely magnesium or aluminium or both, oxygen carrying compounds, for instance, the oxides or the carbonates or the sulphates of heavy metals such as iron, lead or copper, substantially as set forth.

2. A flash light powder consisting of magnesium, aluminium, oxide of iron, carbonate of copper and sulphate of magnesia, substantially in the proportions set forth.

Dated this 16th day of December 1904.

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Redhill: Printed for His Majesty's Stationery Office, by Love & Malcomson, Ltd.—1905.

[*Price 8d.*]