

Title (en)
COMPOUND WITH BASE OF AN ALKALINE-EARTH, SULPHUR AND ALUMINIUM, GALLIUM OR INDIUM, METHOD OF PREPARING SAME AND USE AS LUMINOPHORE

Title (de)
VERBINDUNG AUF DER BASIS VON ERDALKALI, SCHWEFEL UND ALUMINIUM, GALLIUM ODER INDIUM, VERFAHREN ZU SEINER HERSTELLUNG UND SEINE VERWENDUNG ALS LUMINOPHOR

Title (fr)
COMPOSE A BASE D'UN ALCALINO-TERREUX, DE SOUFRE ET D'ALUMINIUM, DE GALLIUM OU D'INDIUM, SON PROCEDE DE PREPARATION ET SON UTILISATION COMME LUMINOPHORE

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Application
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Abstract (en)
[origin: FR2755122A1] The invention concerns a compound with a base of an alkaline-earth, sulphur and aluminium, gallium or indium, method for preparing same and use as luminophore. The compound is of formula AB₂S₄ in which A represents an alkaline-earth, B aluminium, gallium or indium, and it is characterised in that it is in the form of a powder residual content of oxygen not more than 1.5 % and consists of particles of average size not more than 10 µm. This compound is obtained by a method consisting in the following steps: forming a solution or a suspension containing salts of elements A and B, drying the solution or suspension by pulverisation; reacting the product obtained from the preceding step with carbon disulphide or with a mixture of hydrogen sulphide and carbon disulphide. The compound can be used as luminophore, in particular in cathodoluminescence.

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