

NOTE.—The application for a Patent has become void.
This print shows the Specification as it became open to public inspection.

N^o 17,378



A.D. 1913

(Under International Convention.)

Date claimed under Patents and Designs Act, 1907, }
being date of first Foreign Application (in } 30th July, 1912
Germany), }

Date of Application (in the United Kingdom), 29th July, 1913

At the expiration of twelve months from the date of the first Foreign Application,
the provision of Section 91 (3) (a) of the Patents and Designs Act, 1907, as
to inspection of Specification, became operative

Complete Specification not accepted

COMPLETE SPECIFICATION.

Process for the Production of Sulphur Dichloride.

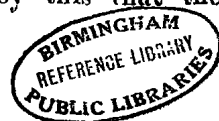
We, VEREIN CHEMISCHER FABRIKEN IN MANNHEIM, Mannheim, Germany, Manufacturing Chemists, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

- 5 It is well known that by bringing together chlorine and sulphur or sulphur monochloride or other sulphuretted substances, even in the cold, sulphur dichloride (SCl_2) is formed only in small quantities, *i.e.*, is formed very slowly. The production of this substance, however, is effected readily at room temperature in the presence of iron, cobalt, nickel or aluminium, in the form of powder, or
10 of manganese dioxide, anhydrous chloride of calcium, ferric chloride or the like, as a catalytic agent. The product thus obtained, having the calculated composition of sulphur dichloride and being produced for example from sulphur monochloride with the employment of 0.3 *per cent.* of powdered iron as a
15 catalytic agent, does not liberate any substantial quantity of chlorine even at 35°C ., whereas without the employment of iron as a catalytic agent there are obtained, even at 0° , solutions of chlorine in sulphur monochloride having the composition of sulphur dichloride, which however, as soon as they are produced liberate the absorbed chlorine almost completely again even at room temperature.
- 20 The product may be employed for the purpose of incorporating sulphur and especially chlorinating inorganic and organic substances.

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:—

- 25 A process for the production of sulphur dichloride from sulphur or sulphuretted substances and chlorine at room temperature characterised by this that the

[Price 8d.]



Process for the Production of Sulphur Dichloride.

components in the calculated proportions are caused to re-act on one another in the presence of a suitable catalytic agent or agents, preferably iron.

Dated this 28th day of July, 1913.

CRUIKSHANK & FAIRWEATHER, LIMITED,
WALLACE CRANSTON FAIRWEATHER,
Director,

International Patent Agency,
62, Saint Vincent Street, Glasgow, and
65—66, Chancery Lane, London, W.C.,
Agents for the Applicants.

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