UNITED STATES PATENT OFFICE.

MAX WEILER, OF ELBERFELD, GERMANY, ASSIGNOR TO FARBENFABRIKEN VORM. FRIEDR. BAYER & CO., OF ELBERFELD, GERMANY, A CORPORATION OF GERMANY.

PENTACHLOROBENZALDEHYDE.

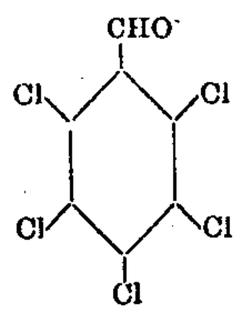
998,140. Specification of Letters Patent. **Patented July 18, 1911.**

No Drawing. Application filed April 11, 1911. Serial No. 620,427.

To all whom it may concern:

Be it known that I, MAX WEILER, doctor of philosophy, chemist, citizen of the German Empire, residing at Elberfeld, Germany, have invented new and useful Improvements in Pentachlorobenzaldehyde, of which the following is a specification.

I have found that pentachlorobenzalchlorid (obtainable either by treating benzyl chlorid with chlorin or by treating pentachlorotoluene or pentachlorobenzyl chlorid with chlorin) can be converted into the hitherto unknown pentachlorobenzaldehyde



by treating pentachlorobenzalchlorid with concentrated or fuming sulfuric acid.

In order to illustrate the new process more fully the following example is given, the parts being by weight:—A mixture of 10 parts of pentachlorobenzalchlorid with 50 parts of concentrated sulfuric acid is stirred at about 60–100° C. until the evolution of hydrochloric acid ceases. The aldehyde is obtained in a pure state by pouring the mass of the reaction on ice. It is a white powder easily soluble in benzene but not so easily soluble in alcohol. It crystallizes in long needles melting at 197–199° C.

I claim:—

The herein described pentachlorobenzaldehyde being a white powder easily soluble in benzene and melting at 197–199° C., substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

MAX WEILER. [L. S.]

Witnesses:

ALFRED HENKEL,

E. VOSS.