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WASHINGTON, D. C.

LEGAL DEPARTMENT
PATENT DIVISION

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27.2 Lead Oxides

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RE: LEAD OXIDES & LEAD SILICA MIXTURES
PRELIMINARY REPORT

In accordance with the request of the last paragraph of your letter of June 27, we are giving you the little information that we have obtained thus far in the search asked for in your letter referred to.

The Garveth patent 1,638,471 is classified in Class 23 sub 148. This subclass and more pertinent sub 148 are the only ones which we have been able to examine to date.

Patents 1,670,049 and 1,749,781 issued to L. Schertel and assigned to Th. Goldschmidt A.G. relate to the preparation of lead oxide by flowing molten lead onto a structure built of fire bricks. Air is blown into the heated chamber containing the structure and the oxides of lead that form are blown out. The claims in the first patent, 1,670,049 refer to the fire bricks as refractive material and it seems, might be infringed by claims for the Beyeradorfer process if they were not carefully drawn to avoid the Schertel claims. The purpose in Schertel's procedure is much the same as in the Beyeradorfer process; that is to extend the film of molten lead on an inert material so as to secure best conditions for quick oxidation. These patents seem of interest in connection with your question (1) on page 1 of your letter of June 27, that is the method of oxidation used. So far we have found no other patent of interest in connection with this question (1).

In regard to your question (2) concerning the lead oxide-silica mixture has a product we have noted patent 1,441,168. This patent concerns a

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a pigment formed by heating metal dro^s to near the melting point of lead, more or less completely oxidizing the lead present in the dro^s and then finally grinding the product with calcium carbonate and silica. Unfortunately, we have not been able to get copies of these patents, of possible interest, in time to include with this letter. We will endeavor to send you a complete report on this search by the end of the present week.

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