

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

PATENT SPECIFICATION

233,715



Convention Date (Germany): May 8, 1924.

Application Date (in United Kingdom): May 7, 1925. No. 11,896 / 25.

Complete not Accepted.

COMPLETE SPECIFICATION.

Improvements in or relating to the Extraction of Precious Metals.

We, SIEMENS & HALSKE AKTIEN-
GESELLSCHAFT, of Berlin-Siemensstadt,
Germany, a German company, Assignees
of Dr. ADOLF MIETHE and Dr. HANS
5 STAMMREICH, both of 172, Berliner-
strasse, Berlin-Charlottenburg, Germany,
do hereby declare the nature of this
invention and in what manner the same
is to be performed, to be particularly
10 described and ascertained in and by the
following statement:—

This invention relates to a process for
extracting gold or other precious metals
from mercury by a suitable electric treat-
15 ment. According to the invention, an
electric arc is formed between mercury
poles, in the same way as is done in mer-
cury quartz lamps. With a sufficient
difference of potential, gold is then pro-
20 duced in the mercury. It is advisable
to condense again the evaporated mer-
cury. The quantity of gold produced
depends, all other conditions being equal,
25 on the quantity of current and also,
among others, on the vapour pressure of
the mercury or on the difference of poten-
tial in the arc. The difference of poten-
tial in the arc must therefore be suffi-
ciently great. If it drops to excessively
30 small amounts, the efficiency will be

greatly reduced. If the difference of
potential is increased, the quantity of
gold formed will be considerably
increased, beginning with a certain
difference of potential. 35

Having now particularly described and
ascertained the nature of our said inven-
tion and in what manner the same is to
be performed, we declare that what we
claim is:— 40

1. A process for the extraction of
precious metals, more particularly of
gold, from mercury, characterised by the
mercury being treated with electric dis-
charges. 45

2. A process according to Claim 1,
characterised by an electric arc being
maintained between mercury electrodes.

3. The process for the extraction of
precious metals from mercury substan-
tially as hereinbefore described. 50

Dated this 7th day of May, 1925.

HASELTINE, LAKE & Co.,
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Agents for the Applicants.