

ALIEN PROPERTY CUSTODIAN

METHOD OF PRODUCING ARTIFICIAL SUBSTANCES FROM POLYVINYL COM- POUNDS

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vested in the Alien Property Custodian

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This invention relates to a method of produc-
ing artificial substances from polyvinyl com-
pounds.

To produce artificial substances from polyvinyl
compounds, particularly from polyvinyl chloride, 5
subsequently chlorinated polyvinyl chloride or
vinyl chloride interpolymers, it has already been
proposed to employ as softening agents such or-
ganic compounds which contain besides one or
more aromatic groups, one or more aliphatic
groups, each of which consists of a chain of at
least 10 carbon atoms. These requirements are
met, for instance, by the following softening
agents: Homologous aromatic hydrocarbons with
a highly molecular side-chain, esters of aromatic
alcohols or phenols with highly molecular fatty
or oleic acids, aromatically substituted amides of
highly molecular fatty or oleic acids and mixed
ethers of aromatic alcohols and highly molecular
aliphatic alcohols.

According to the invention instead of soften-
ing agents containing oxygen the corresponding
sulphurous compounds are employed as softening
agents. In lieu of the esters of phenol or aro-
matic alcohols with highly molecular fatty or 25

oleic acids already proposed as softening agents,
the esters of thiophenol or aromatic mercaptans
with highly molecular fatty or oleic acids, for
instance, thiophenylstearate or the benzylmer-
capto-oleate are employed. Also the sulphur de-
rivatives of the mixed ethers already proposed,
i. e. sulphides which contain on the one hand an
aromatic group and on the other hand a highly
molecular aliphatic group, for instance, the
10 phenyldodecylsulphide have proved particularly
suitable.

Besides the homologous aromatic hydrocarbons
in which the side-chain contains more than 10
carbon atoms, also another class of substances
15 has given satisfactory results in which the side-
chains and aromatic rings are linked by a direct
C—C bond, i. e. aliphatic-aromatic ketones with
an aliphatic chain of more than 10 carbon atoms.
The product resulting from the Friedel-Crafts re-
20 action of dodecylchloride on xylene and the un-
decylbiphenylketone may be cited as instances.

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