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PRODUCT FOR OVERCOMING THE CRYPTO- GAMIC DISEASES OF PLANTS AND ITS MANUFACTURING PROCESS

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It is known to use copper ammonide for over-
coming the cryptogamic diseases of plants. The
said process has been repelled because the copper
apprayed upon the parts to be protected is en-
trained by rain and dew, so that the length of
efficiency of the ammonide is rather restricted.

On the other hand it is known that copper
ammonide dissolves cellulose.

The present invention is based upon the use
of the said last feature for preventing the en-
trainment of copper by rain and dew.

The present invention has for its object a
product for overcoming the cryptogamic diseases
of plants, which is constituted by a mixture of
copper ammonide and of an adhesive material
and particularly by a dissolution of cellulose in
copper ammonide, the said dissolution being ad-
vantageously added with colloidal, plastic,
adhesive or viscous elements.

In order to obtain the said cellulosic dissolu-
tion, cellulose is introduced in the ammonide, the
said cellulose is dissolved, thus obtaining a li-
quid which is more or less thick according to the
amount of cellulose being added. The dissolu-
tion of cellulose is facilitated by grinding.

As colloids or plastic materials colloidal clay
can be mentioned, the said clay being sufficiently
ground for remaining suspended in the liquid to
be sprayed, such materials being for instance

kaolin, kieselguhr which further have the advan-
tage of leaving if necessary after addition of a
dye,—upon the leaves visible traces which en-
able to control the reality and the rate of the
treatment.

In order to obtain a given viscosity, fat ma-
terials and particularly a small proportion of
rosin oil can be used, the said materials remain-
ing incorporated in the ammonide in the form of
ammonia soap.

When the said product is to be used, be it
under the form of paste or of a liquid, it is mixed
to a more or less great amount of water, accord-
ing to the copper content desired for the liquid
to be sprayed. It will be noted that the cellu-
lose is suspended in the form of very light flakes.
The said flakes are very easily dispersed in a per-
sistent way by stirring and will be sprayed on
to the vegetal parts to be protected simultane-
ously with the liquid.

A short time after appraising, the ammonia,
then the water evaporate and the copper re-
mains sticked to the leaf, under various combi-
nations. The cellulose and the plastic mate-
rials (clay, etc.) form a kind of protective varnish
or coating. The ammonia soap imparts a given
viscosity the said coating and loses by evapora-
tion most of the ammonia which it contains.

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