

## Title (en)

METHOD OF CONVERTING THE CHEMICAL STRUCTURE OF COMPOUNDS CONTAINING CHLORINE AND FLUORINE

## Publication

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## Application

**EP 93101169 A 19930127**

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## Abstract (en)

[origin: EP0553776A2] The invention relates to a process for modifying a given chemical structure, preferably of compounds containing chlorine and fluorine. These are to be understood as also including mixtures. The modification of a given chemical structure is to be understood in the widest sense in such a way that, in fact, other or novel substances having different properties can be formed from these, if appropriate with the inclusion of further substances not contained in the system of substances charged. In the simplest case, the given chemical structure can be a single chemical substance, but also a mixture of different components, it being possible, furthermore, for the substances to be present in all three physical states of aggregation. The substance modification to give the different materials is effected by breaking up the old structures (cracking) and newly synthesising the fragments to give new structures. The fragments (ions, free radicals, electrons, neutral particles) thus produced by the cracking (preferably in the plasma state of the material) undergo a variety of interactions with one another which can be influenced to a certain extent by the temperature and pressure conditions and by the concentration of the substances involved. Moreover, an additional influence on the cracking/synthesis process from the outside is possible by sonic waves or microwaves and also radiation. Substances which are not required are incorporated in a harmless manner as a result of the plasma process, so that only those substances leave the balance system which are desired and/or do not infringe the statutory regulations.

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## Citation (search report)

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