

Sustainable agriculture: concept protected by European patent

The mail from Munich came in the morning. The sender: The European Patent Office. Great joy in Remshalden near Stuttgart. The team, the two managing partners, Elmar Buder and Prof. Dr.-Ing. Martin Heinisch of the company B + H Solutions GmbH in Baden-Wuerttemberg, finally got it in black and white: the patent was granted for their solution concept for sustainable plant cultivation (patent EP 3205637). The secret of this holistic innovation: making the plants vital and hungry and putting every single plant cell to work.

"We have researched and developed this technology for more than ten years," reports Prof. Dr.-Ing. Martin Heinisch. "Right at the beginning of our research, we found that the current programs in plant cultivation did not fully exploit the full potential of the plants. We found the cause for this to be the undersupply of various trace elements. Our solution is aimed precisely at pampering the plants with optimally assimilable trace elements. We see the timing as ideal, because worldwide, the reduction - ideally the elimination - of crop protection products is an issue."

Co-partner Elmar Buder adds: "Our approach of getting the plants to work via the trace elements and stimulation of the immune system inevitably leads to a significant reduction in crop protection products. The yields are optimal and the quality of the fruit - including storage - is perfect. Useful insects - bees too - also benefit greatly from the concept.

Just a few hours after applying our product mix, it can be noticed that the plants start to feel good. The plants become hungry - the EC measuring devices react immediately - and channel the new energy into strong roots and an increased number of shoots and flowers. If the plant feels well, it will not get sick. The concept is an important piece of the mosaic for our vision "plant cultivation without pesticides", says a beaming Elmar Buder.

Particularly positive for the consumer: fruits and vegetables, but also arable crops and public lawns can be cultivated without fungicides. When using beneficial insects, it is also possible to do so without insecticides. Some farmers are already able to deliver completely residue-free fruit to German and international households.

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