

# Licensing opportunity

## Chemical hybridization of hermaphrodite plant varieties by easily soluble oxanilic acid derivatives

### Field of use

Production of hybrid seeds

### Current state of technology

Fully developed method (TRL 9)

### Patent status

Granted patent valid in Republic of Slovenia (pub.: 30.10.2013)

### Publication

ISKRA, Jernej, TITAN, Primož, MEGLIČ, Vladimir. The effect of fluorine atom on the synthesis and composition of gametocidal ethyl oxanilates. *Acta chimica slovenica*, ISSN 1318-0207.

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### Reference

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### Prior Art

Known sprayers of this type are formed as agricultural tractor attachments, on which at least one sprayer assembly of an optional known variant is mounted. Direction of spraying is set prior to spraying based on the average size and shape of plant crowns. When driving through a permanent crop, the tractor driver manually changes the quantity of the preparation as he progresses based on the changed density of plant crowns. A drawback of this solution lies in that the tractor driver must be constantly attentive to manually adapt the quantity and direction of spraying together with proper and safe driving. It can therefore not be expected from the driver to adequately meet the requirement for optimum spraying.

### Description of the invention

The subject of the present invention is a sprayer for targeted application of phytopharmaceutical preparations in permanent crops. The sprayer of the invention is preferably intended as an agricultural tractor attachment due to economic reasons, however, there is technically no obstacle for its being designed as an independent transport unit. The invention solves the design of a sprayer that would allow applying a predetermined optimum specific quantity of phytopharmaceutical preparations onto target surfaces of plants in permanent crops by simultaneously keeping the consumed quantity of phytopharmaceutical preparations at the lowest level possible.

### Main advantages

The goal of the invention is to increase the quantity yield of phytopharmaceutical preparations without any impact on the quality of the preparation sprayed equally over the intended spots on plants.