Abstract

# METHOD AND APPARATUS FOR INDUCING ANTIBACTERIAL PEPTIDES IN FLIES


**【Summary】**

[Problem] A method for inducing antibacterial peptides in insect’s body.

[Solution method] In a method for inducing antibacterial peptides in insects by damaging the insects, the method is characterized in that the damaging of the insects is performed by irradiation of a laser beam, in such a manner that the laser beam penetrates the insect's epidermis to make a hole in the insects without causing irreparable damage to the insect, so that antibacterial peptides is induced in the insects. An apparatus for inducing antibacterial peptides in a body of insect by the method according to claim 1, comprising a $CO_2$ laser irradiation unit, a position information acquisition means for obtaining a position information of the insect, and a means for transmitting the insect position information obtained by the position information acquisition means to the insect position information. Use of a $CO_2$ laser in a method for inducing antibacterial peptides in the insect's body by making holes that penetrate the insect's epidermis.

Fig. 1