

The invention relates to the agriculture, namely to a mechanized line for production of insect eggs.

The mechanized line for production of insect eggs includes a rotary table with recesses (11), equipped with a fixative (12) and a pressure mechanism (13), chambers and a pneumatic egg collection unit. The chambers, each of which includes an imago insect growing box (1) with sealed cover (2) and an egg laying and insect keeping nursery (3), made of a metal net with meshes $1,2 \times 1,2$ mm as much as the imago dimensions, but greater than the dimensions of eggs, are installed into the recesses on the rotary table in series and fixed with the help of the fixative (12). The box (1) and the nursery (3) placed under it are made in the form of cylinders with different diameters, placed coaxially, and are joined between them by an insect tube (5), equipped with a light source (6) and a device (7) for calculating the number of hatched insects, having passed under the action of positive phototaxis from the box (1) into the nursery (3). At the same time, the diameter of the nursery is at least twice as much as the diameter of the box. At the bottom of the chamber there are placed with the possibility of controlling the distance between them capronic nets (9, 10), between which it is placed a substrate-bean, at the same time the upper net (9) has the mesh dimensions of $1,2 \times 1,5$ mm, exceeding the dimensions of eggs, and the lower one (10) the dimensions of $0,15 \times 0,15$ mm, smaller than their dimensions. Above the table it is installed the pneumatic egg collection unit consisting of an aerodynamic tube (14), a separator (17), equipped with an egg reception cup (18), connected by means of an air conduit (20), equipped with an air rate regulator (21), to an exhaust fan (22) and a visor (19), installed above the aerodynamic tube (14). The configuration of the lower part of the tube (14) repeats the outer contour of the chamber, and the inlet into the tube (14) is made in the form of disk with concentric netted ring (15), the outer diameter of which is equal to the diameter of the nursery (3) and the inner diameter - to the diameter of the box (1). The sectional area of the upper end (16) of the aerodynamic tube (14) is at least 1,2 times greater than the area of the concentric netted ring (15).

The result of the invention consists in intensifying the insect egg production process.

Claims: 1

Fig.: 4

