

The invention relates to agricultural machinery, in particular to the sprayers and can be used to protect vines against pests and diseases.

The recuperation sprayer contains a frame on wheels (1), on which are mounted a tank (2) for hydraulic fluid with a pump (3) with cardan drive (4), a pressure regulator (8), a multiplier (14), a centrifugal fan (5) with cardan drive (6) for sucking the working fluid droplets, a vertical frame (7), a ramp, on which are mounted two mobile arms operated by two hydraulic cylinders, which prop up two horizontal air ducts connected to the fan (5) for pumping the air flow and connected with two vertical air ducts to holes for air flow. To the air ducts are attached two vertical rods, on which are fixed atomizers. The sprayer also contains a chamber-trap (17) of the unused hydraulic fluid drops, placed behind the sprayer perpendicular to the direction of movement and provided with a cover (18), an accumulator of working fluid, three filters for the resettlement of the working fluid drops and elastic cuffs, fitted to the side inlets of the chamber-trap (17) round their perimeter. The chamber-trap (17) is connected to the tank (2) through an ejector for the transfer of the trapped fluid into the tank (2). To the cover (18) of the chamber-trap (17) are fixed two pipelines (19) for sucking the air out of the chamber-trap (17), connected to the fan (5). The horizontal air ducts are made with the possibility of atomizers placement opposite the side inlets of the chamber-trap (17).

The technical result is to increase the vineyards treatment productivity, to reduce the working fluid loss and to reduce the polydispersity of drops.

Claims: 3

Fig.: 5

