

The invention relates to the agricultural machinery industry, in particular to the boom sprayers for distribution of liquid fertilizers and toxic chemicals.

The boom sprayer contains a carrying frame, onto which there are mounted a reservoir and a spraying boom, including a central frame and lateral sections, as well as a suspension, including two articulately fixed hydraulic shock-absorbers and elastic shock-absorbers. The sprayer is additionally provided with a bed frame, placed in the middle part of the carrying frame and including a pair of supports, a pair of vertical bars-stops and beams joining them, and between them it is placed the central part of the spraying boom, at the same time the supports are placed in the plane of the central frame. The bed frame is joined with the central frame of the spraying boom by means of a pair of tie-rods, symmetrically placed on both sides thereof, the upper end of each tie-rod being articulately fixed onto the upper beam of the bed frame, and the lower end is articulately fixed in the upper part of the central frame of the spraying boom and shifted about the upper one, from the axis of symmetry, as well as by means of two hydraulic shock-absorbers, symmetrically placed inside the bed frame. The upper end of each hydraulic shock-absorber is joined with the upper part of the central frame of the spraying boom and the lower beam of the bed frame - to the lower beam of the carrying frame and it is shifted about the upper one to the axis of symmetry. The elastic shock-absorbers are made in the form of symmetrically placed stops, disposed in the sockets of the bed frame supports and contacting with the supports of the central frame of the spraying boom. The tie-rods and the hydraulic shock-absorbers are fixed by means of arms. The base surfaces of the stops, contacting with the supports of the central frame of the spraying boom, are made inclined.

Claims: 3

Fig.: 7