

The invention relates to the field of agricultural machinery and structures, in particular to modular greenhouses with full ventilation for growing fruits and vegetables, with the aim of growing plants as naturally as possible.

The greenhouse, according to the invention, comprises a frame, formed of piles (1), racks (2), longitudinal (3) and transverse (4) beams, and a curved roof of arcs (5), and covered on the outside with a sheet material, for example, a plastic film. The greenhouse also comprises a roof complete opening/closing system, which comprises an electric motor (6) with a reduction gearbox (7) and a transmission (8), connected to a rotating shaft (12), placed on guides (9) by means of supporting elements (11). At the ends of the rotating shaft (12) are fixed subassemblies (13) for transmitting the rotation to a cylindrical rod (14), wherein is fixed one edge of the plastic film, the other edge being fixed to the longitudinal beam (3), with the possibility of winding the film on the rod (14) as it moves from the side of a ridge (23) of the roof towards the lower part of the roof and unwinding the film from the rod (14) when moving in the opposite direction.

The greenhouse with a flat roof comprises a roof complete opening/closing system, which contains an electric motor with a reduction gearbox and a transmission, rigidly mounted in the center of the roof and connected to a threaded shaft, placed along the entire width of the frame, and to a movable reduction gearbox, connected to a rotating shaft (12), placed on guides (9) by means of supporting elements (11).

Claims: 7

Fig.: 7

