

Technological complex for aerial chemical treatment of plants using unmanned aerial vehicle consists of an unmanned aerial vehicle equipped with a tank for refueling with chemical liquid and a ground-based mobile service unit equipped with a tank for refueling with chemical liquid. Wherein, the ground-based mobile service unit consists of a platform with a system for refueling the unmanned aerial vehicle with liquid for chemical treatment of plants, a mechanism for securing the unmanned aerial vehicle with movable clamping arms, a battery replacement mechanism for the unmanned aerial vehicle and a charging cradle, as well as a tank for refueling with chemical liquid, which is mounted on a wheeled base and located beneath the platform. The system for refueling the unmanned aerial vehicle with a liquid for chemical treatment of plants includes a refueling valve to which a tank for refueling the unmanned aerial vehicle with a chemical liquid is connected. The battery replacement mechanism for the unmanned aerial vehicle includes guides along which the battery clamps move between the unmanned aerial vehicle's locking mechanism and the charging cradle, wherein the charging cradle is mounted on a platform capable of circular rotation and comprises one empty cell and several cells filled with batteries.