

Invention relates to mobile, expandable structures that are transported by vehicles to various operating locations. The structure comprises a stationary module, expandable modules, expansion mechanisms, support mechanisms for the expandable modules, and a power supply system. The novelty lies in the following: the structure includes a frame and a control unit connected to the expansion mechanisms, the support mechanisms, and all electronic components of the device; the expansion mechanisms are installed in the lower part of the structure and consist of “tube-in-tube” systems with rollers and motors that are synchronized with one another; each support mechanism consists of at least three profile elements, contains its own motor, two roller systems, and vertical poles through which reinforcing cables are threaded; the support mechanisms are installed in the upper part of the structure and are attached to the roofs of the stationary module and the retractable modules. The motors of the extension mechanisms are synchronized with each other and with the motors of the support mechanisms. The invention allows to achieve the following: stable, uniform, smooth, mechanized, and automated simultaneous extension/retraction of several extendable modules outward from the stationary module; stable and long-term support from above and below for the extended modules; and maximum increase in the usable area of the mobile expandable structure.