A base structure of a space rocket for fixing and separation in flight of payloads contains a power case, which is made of two compartments in the form of truncated cones of equal height fastened among themselves on their greater diameter by explosive device. The bottom end face of the power case is closed by the bottom, and on top with the help of explosive devices is fixed a hemispherical cover. In the bottom part of each compartment is fixed a transitive frame with a platform fixed on it executed as a plate. On platforms are mounted demountable adapters for fastening to them of payloads. Explosive devices of fastening of compartments and hemispherical cover are located on external surface of the power case and are closed by heat-insulating covers. The invention provides an opportunity of rational accommodation, fixing and separation in flight of payloads of various size and weight placed at two levels of power case that is divided.