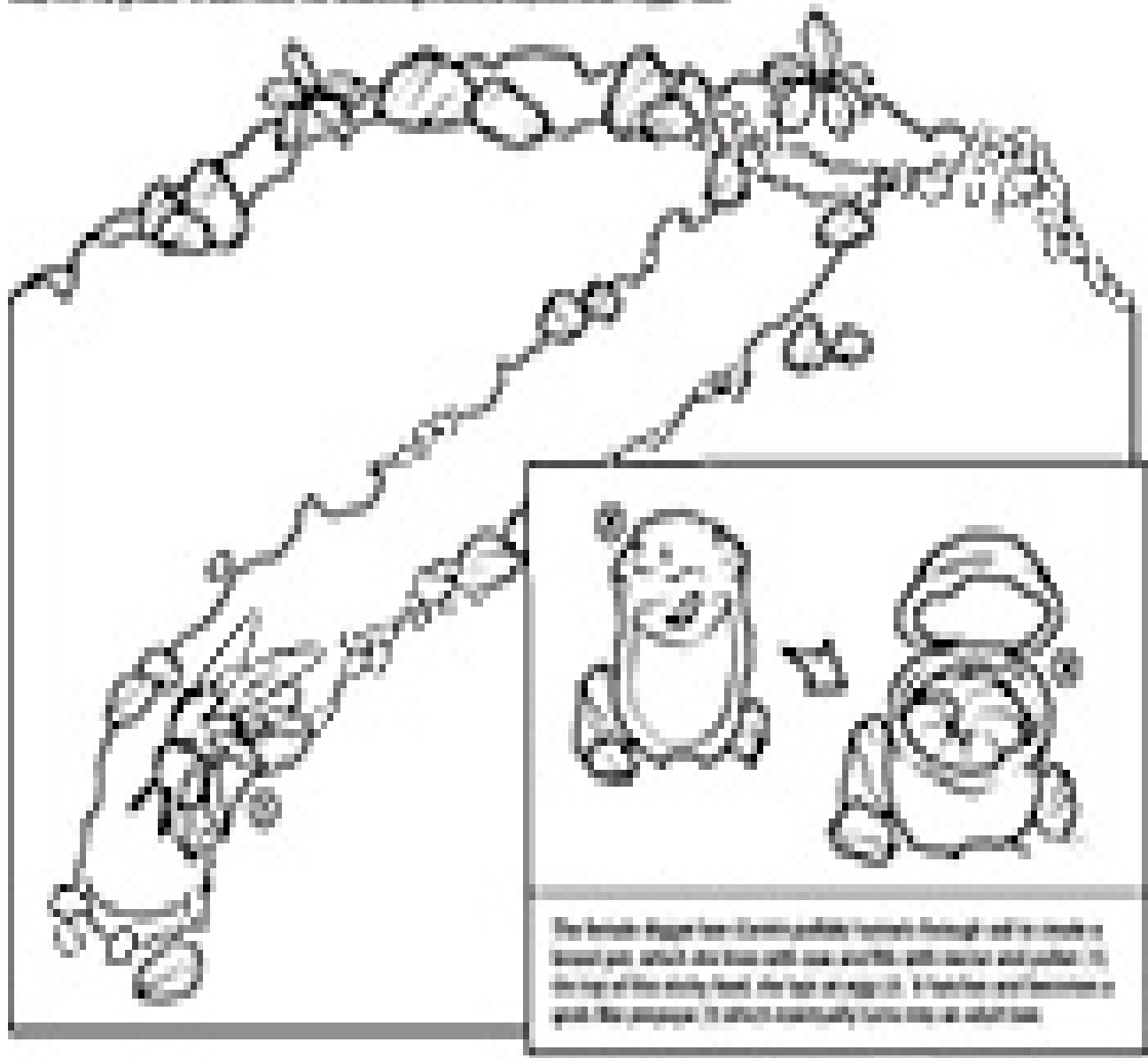


Use of these structural members to form frames are called **space frames**. They consist of members that extend in three directions and are joined at their ends to form a rigid three-dimensional shape. They are used in many applications, such as bridges, towers, and aircraft.



The figure shows two types of space frames. The first is a simple cylindrical structure, and the second is a more complex, multi-layered structure with a central vertical member and horizontal rings. The text explains that these structures are used in many applications, such as bridges, towers, and aircraft.

Fig. 1. Space frame structures. (a) Simple cylindrical structure. (b) Complex multi-layered structure.