

Topic: Pure Power/Daily Combat Strategy for Water Collection

In Africa, where water resources have been polluted for a long time, and the long distance to get water is difficult, it takes one to three hours to get from home to the water source, but the water that can be obtained is muddy mud water. Water pollution is also the problem in Africa. One of the main causes of death is that they drink contaminated water for a long time. The poor environment prevents them from having other ways to get water. These contaminated water usually contains a lot of bacteria and parasites, which can cause illness or even death. Therefore, to obtain clean water is my hope that they can have clean water resources to use. After meeting the water resource problem, it can improve the problem of water extraction, clean drinking water, cooking and food hygiene in Africa.

Housing is the most important place in life to provide people with shelter from the wind and rain, as well as a place for daily activities. It has been observed in Africa that family women still retain local traditional woven clothing. All parts of the world have their own weaving culture. Under the circumstances of limited environmental conditions and budget, I try to use the local weaving culture as an idea, combine the housing of local materials, and combine dew collection to create a clean house for non-residents. Water source, easy to build, and economical housing.

How do poor rural areas think about using local materials based on economic sustainability as an effective use tool, and can be built in other places after 10 years and 20 years. In terms of architecture, bricks and wood, which are easily available locally, are used as the main building materials. The design of local objects can be simple weaving with the power of a family. Joint weaving can also enhance the emotions between family members. Through the place With the ability to reduce budget expenditures and increase the temperature of the hand-made buildings, this residence is closer to the family and has a sense of belonging. In the configuration space, the bedroom space surrounds the public space, so that the bedroom and the semi-outdoor space are closely connected to create a daily life space where the family can gather. On the roof, a wood structure is combined with a weaving device that collects dew. The weaving technique and structure are interwoven to form a structure that echoes the concept. The tolerable curvature of the wood structure is used as the support of the roof structure, and the structure of the roof is covered by weaving. , The cladding of the roof is covered with structure, waterproof layer (PVC), and dew collection layer. It can collect dew in the air in the early morning, and can

collect rainwater in rainy days, and store it after filtering the water through the filtration system. Up, the weaving device collected by Dew and with local weaving characteristics, through the use of local weaving colors and simple construction methods, create a useful and interesting roof system.