千帆竟发

—飞来农场的未来

长期生活在沙漠地区的贝都因人会习惯性的随身携带一片面积一个平方米的塑料布，用于收集空气中的水。一晚上大约能收集50g水，量虽然少但可救命。我们的设计是改进这片塑料布，做成一个面积3~6个平方米的帆，两层尼龙网可以阻挡污染物，中间的尼龙纤维编织填料提供大量表面积，收集到的水自流汇聚到底部塑料布形成的集水槽，再通过软管流入容器。帆由两根可伸缩的支撑杆定型，有导向设置使它始终面对吹来的风，整套设施可以方便的收纳折叠，便于携带。

如果您在山巅或沙漠露营，如果您驾船出海度假，也许可以用帆来收集饮用水。在昼夜温差比较大的地区，也可以用收集到的水来维持植物生长；简单，便捷，有效。

我们研究了“2020飞来农场的设计指南”和火人节的活动安排，考虑到“帆”的特点，我们提出以下两个应用方案：方案一制作一些2mX1.5m的“帆”（表面印有牡丹花图案），分发给火人节狂欢队伍用以从空气中收集饮用水。众所周知，在北半球进入八月后夜间气温比较低，普遍有朝露出现，因此相信“帆”可以收集到一定量的水。方案二在飞来农场内建造数个由水沟、池塘、花草、树木为主的小型园林生态系统，制造一些4mX1.5m的“帆”（表面可以印制昆虫或飞鸟图案），既可以美化环境又可以收集水分维持生态；到了寒冷潮湿的冬季，还能便捷的收纳这些“帆”，同时这样的生态系统会储存下大量的水分。

Bedouins who have lived in desert areas for a long time will habitually carry a plastic sheet with an area of one square meter to collect water in the air. About 50g of water can be collected in one night. Although the amount is small, it can save lives. Our design is to improve this plastic sheet and make it into a sail with an area of 3~6 square meters. Two layers of nylon net can block pollutants. The nylon fiber compression packing in the middle provides a large surface area. The collected water flows into the water collection tank formed by the plastic sheet at the bottom and then flows into the container through the hose. The sail is shaped by two telescopic support rods, and is guided to face the blowing wind all the time. The whole set of facilities can be conveniently folded and carried.

If you camp on the mountain or in the desert, if you sail out to sea on vacation, you may be able to collect drinking water with sails. In areas with large temperature difference between day and night, collected water can also be used to maintain plant growth. Simple, convenient and effective.

We have studied the "design guide of 2020 flying ranch" and the activity arrangement of the Burning Men Festival. Considering the characteristics of the "sail", we put forward the following two application plans: Plan 1: make some 2mx1.5m "sails" (with peony pattern on the surface) and distribute them to the carnival team of Burning Men Festival to collect drinking water from the air. As we all know,in August in the northern hemisphere, the temperature is relatively low at night, and there is generally morning dew, so it is believed that "sail" can collect a certain amount of water. Plan 2, several small garden ecosystems, mainly including ditches, ponds, flowers, plants and trees, will be built in the flying ranch, and some 4mx1.5m "sails" (with insect or bird patterns printed on the surface) will be made to beautify the environment and collect water to maintain the ecology; in the cold and humid winter, these "sails" will be conveniently collected, and such ecosystems will store a lot of water.