

SOLAR ENERGY AUTOMATIC SOAKING AND HEAT-COLLECTING TUBE, TROUGH-TYPE ASSEMBLY, AND HEAT POWER GENERATING SYSTEM AND TECHNIQUE

ABSTRACT

Disclosed is a solar energy automatic soaking and heat-collecting tube, comprising a glass tube (1b2) and an absorption tube (1b3) coated with a heat-absorbing layer sheathed therein, a vacuum existing between the glass tube (1b2) and the absorption tube (1b3). A baffle plate (1b4) capable of making fluid in the absorption tube (1b3) alternately reverse and flow up and down is provided in an inner chamber of the absorption tube (1b3), the partition plate (1b4) being helical in shape and being fixed in the absorption tube (1b3). Also disclosed is a heat power generating system and technique using complementary light and heat power generation, preventing a solar energy complementary light and heat power station from being affected by the weather, and maintaining stable power generation when it is night or there is not sufficient sunlight.

Fig. 2