

SOLAR LIGHT COLLECTING AND REDIRECTING SYSTEM

ABSTRACT

A solar light collecting and redirecting system includes a reflector having a plurality of trapezium shaped mirrors attached to a mount disk at inner side of a top end of the reflector. The mount disk is attached to a collection area of a tubular daylight device via a mounting means. A carriage disk is connected to a bottom end of the reflector through linkages. A screw-rod part connected to the carriage disk vertically moves the carriage disk which in turn moves the reflector back and forth affecting an angle of reflected light. An actuator and a controller mounted on the mount disk provides a rotary motion of the screw rod part and controls and synchronizes movement of the reflector and the screw rod part with respect to movement of sun in the sky.

Fig. 3

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