

ABSTRACT

A thunder and lightning intercepting apparatus. In the present application, a sufficiently long target upward leader can be generated, so as to construct a thunder and lightning discharge channel; and several lightning rods are used to receive overhead lightning strikes and side lightning strikes that are from different directions, so as to intercept the overhead lightning strikes and side lightning strikes, thereby effectively attenuating lightning strike currents and reducing the intensity of a lightning-strike electromagnetic field. Therefore, the present application may be applicable to buildings that need protection against direct lightning strikes and induction lightning strikes, and is particularly applicable for use in systems such as onshore/offshore wind power, high-voltage power transmission, or high-speed rail overhead lines, thus playing a role in effectively intercepting lightning strikes from different directions. Not only is the safety of buildings to be protected improved, but the usage cost is also saved on.

Figure 1