

ABSTRACT

FAN STRUCTURE FOR MOUNTING IN A LIGHT STEEL

STRUCTURE OF A CEILING

A fan structure is disclosed to include a fan holder holding a fan motor and a fan blade, a bottom cover frame, which has smoothly arched bottom wall, a horizontal mounting flange extending around the smoothly arched bottom wall and mounted in one frame sash of a light steel structure of a ceiling, a vertical connection flange connected to the top cover shell of the fan holder, a circular center opening corresponding to the fan blade, ventilation holes spaced around the circular center opening and a fence disposed above the circular center opening and surrounding the fan blade defining with the top cover shell of the fan holder a space for causing a gate effect during rotation of the fan blade, and a grille mounted in the circular center opening of the bottom cover shell for output of currents of air caused by the fan blade.

Figure 1.