



Outdoor LCD Signs Ventilation Solution

Patented: 02.2019

Fully Sealed | IP68 | Heat Sink | Transfer Pipe | Environmental Friendly



Ventilation System Features

Our patented Ventilation Solution for NANOV products employs a fully-sealed design to retain thermoregulated equilibrium internally, regardless of outdoor climate – harsh sunlight, rainstorms, blizzards, dry heat, underground dust, and beyond.

This fully sealed design transfers any built-up heat through heat pipe transfer technology, allowing the system to internally cool down, as well as fans to move the air around internally (Fig. 1 and 2).

By being firmly enclosed and secure from the threats of water or residue from the environment, maintenance is easier making it perfect for a variety of contexts (i.e. LCD Kiosks placed in between tracks, where maintenance is difficult and hugely disruptive).

The sealed environment prevents the needs for filters, which also means the efficiently designed ventilation system creates extra room for other features, like LTE modem and routers. Without any vulnerable openings to the outdoors, the LCD sign is eminently stable.

Furthermore, transferring the air from a dynamic heating to cooling system leads to an energy-effective, and therefore, more environmentally conscientious system than older or other ventilation models.

The US patent number is US20200241612A1. For more information, you can view on the [Google Patents website](#).

Fig. 1 – Fans & Heat Pipe

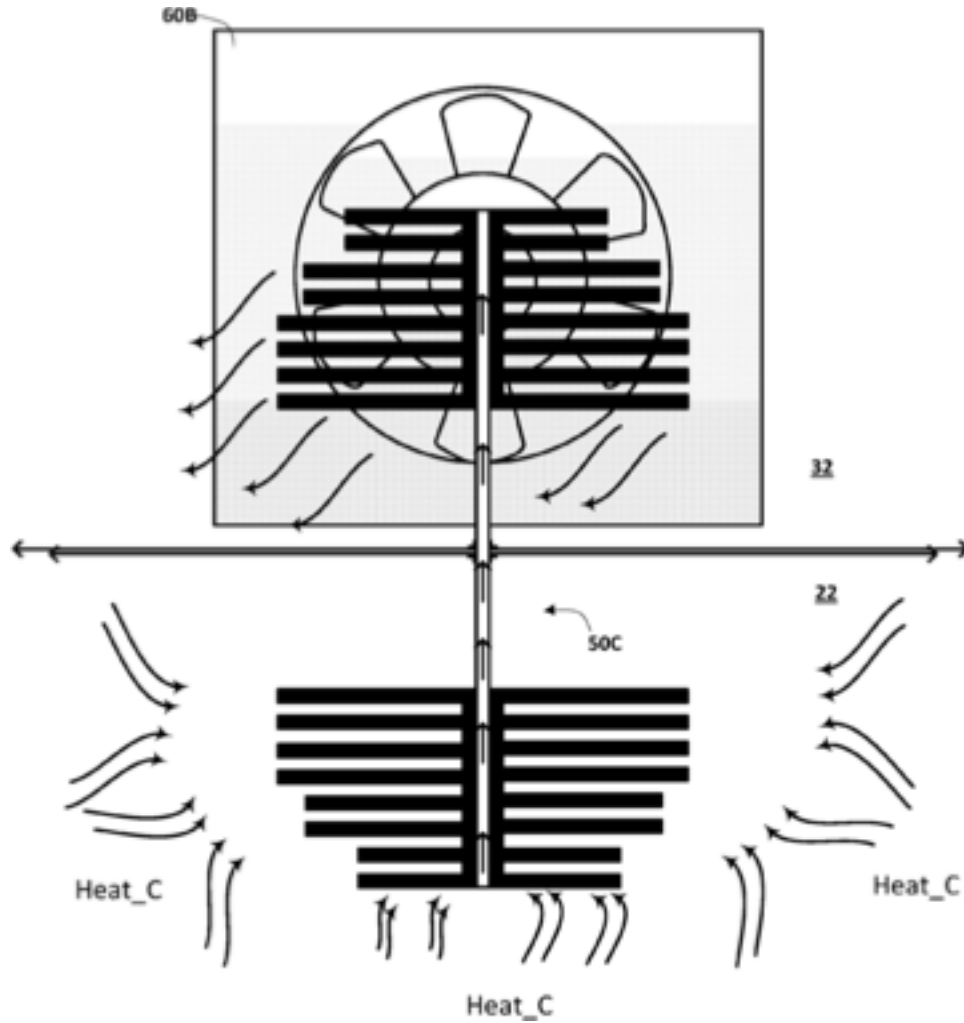


Fig. 2 Heat Sink & Heat Pipe

