

# Technical Disclosure Commons

---

Defensive Publications Series

---

November 29, 2018

## THERMAL BOOST FAN CONCEPT

HP INC

Follow this and additional works at: [https://www.tdcommons.org/dpubs\\_series](https://www.tdcommons.org/dpubs_series)

---

### Recommended Citation

INC, HP, "THERMAL BOOST FAN CONCEPT", Technical Disclosure Commons, (November 29, 2018)  
[https://www.tdcommons.org/dpubs\\_series/1713](https://www.tdcommons.org/dpubs_series/1713)

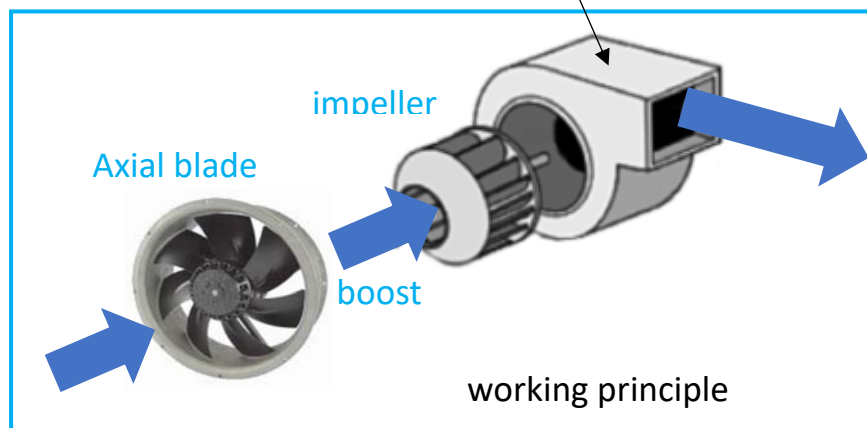
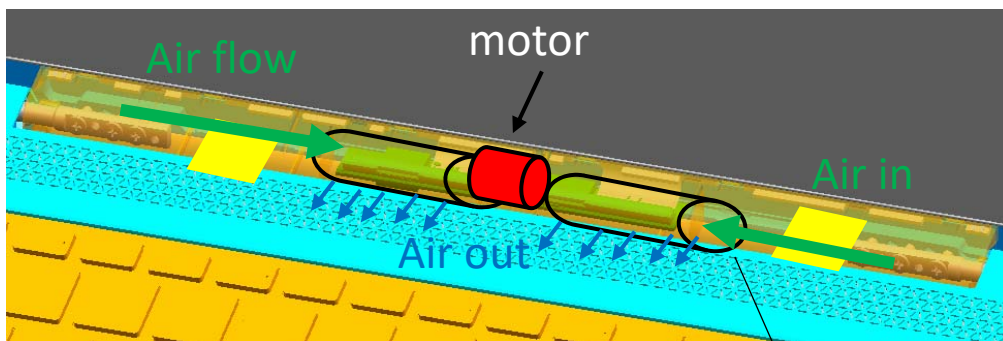
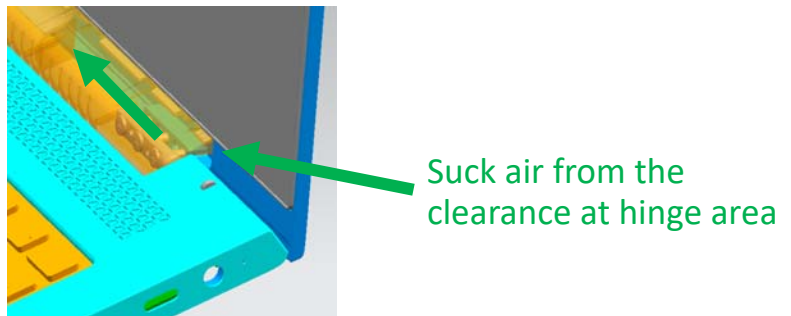


This work is licensed under a [Creative Commons Attribution 4.0 License](https://creativecommons.org/licenses/by/4.0/).

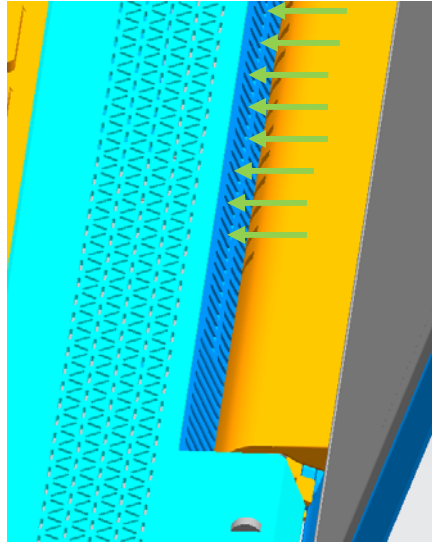
This Article is brought to you for free and open access by Technical Disclosure Commons. It has been accepted for inclusion in Defensive Publications Series by an authorized administrator of Technical Disclosure Commons.

## Thermal boost fan concept

This thermal boost fan utilizes hinge barrel on laptop to boost air to cool down system. This boost fan could suck cold air from hinge shaft, then change air direction outlet into system. Refer to below sketch for detail.



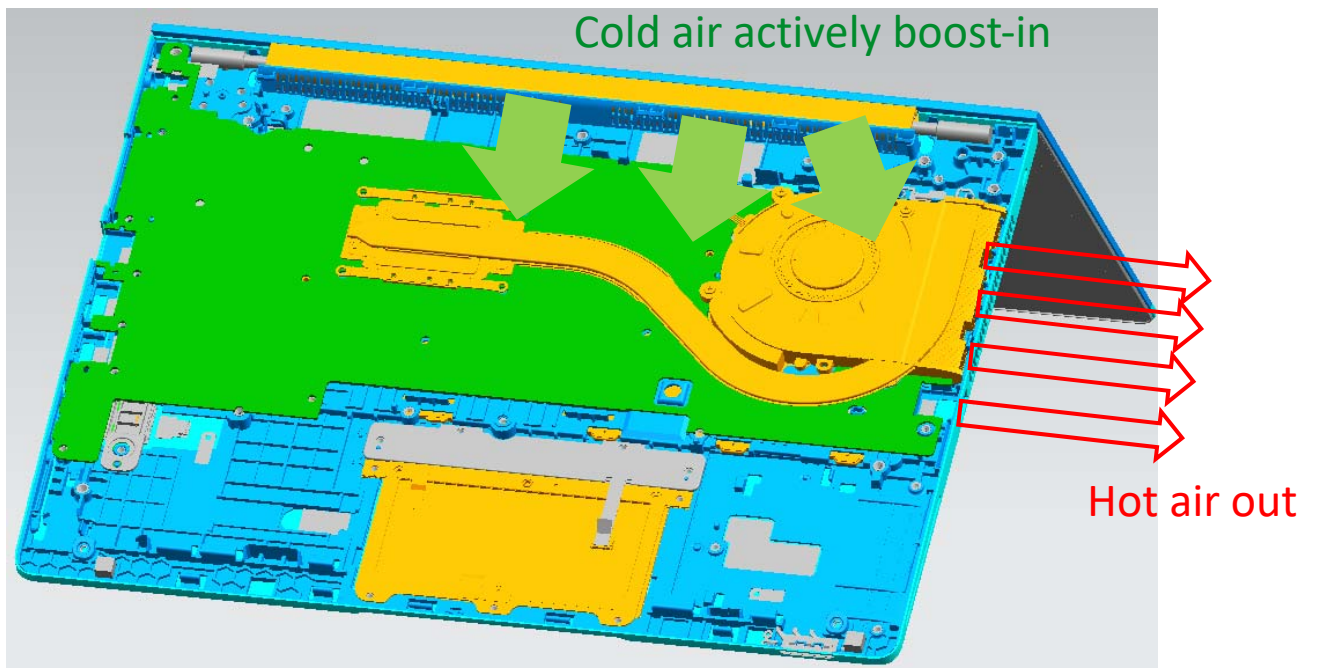
The boosted air would enter system base for cooling shown as below.



The boosted air into system base could be used for either

- a. system without additional cooling fan, e.g. fanless design
- b. system with individual cooling fan

Taking fan cooling system as example shown below.



## **Business strategy**

This thermal boost fan concept would enhance thermal performance by boosting air into system. So, we could either save thermal space at system base to achieve ultra slim laptop approach, or achieve much higher thermal performance at workstation market.

***Disclosed by Charlie Ku, Kuo-Chih Huang and James Pan, HP Inc.***