

Technical Disclosure Commons

Defensive Publications Series

July 10, 2018

FOLDABLE PC EMBEDDED WITH FLEXIBLE DISPLAY AND KEYBOARD

HP INC

Follow this and additional works at: https://www.tdcommons.org/dpubs_series

Recommended Citation

INC, HP, "FOLDABLE PC EMBEDDED WITH FLEXIBLE DISPLAY AND KEYBOARD", Technical Disclosure Commons, (July 10, 2018)

https://www.tdcommons.org/dpubs_series/1300



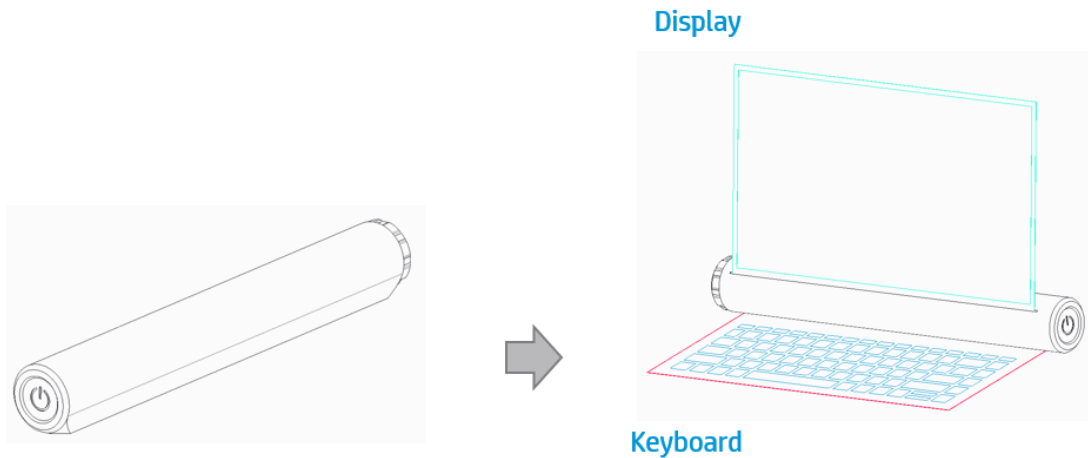
This work is licensed under a [Creative Commons Attribution 4.0 License](https://creativecommons.org/licenses/by/4.0/).

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.

Foldable PC embedded with flexible display and keyboard

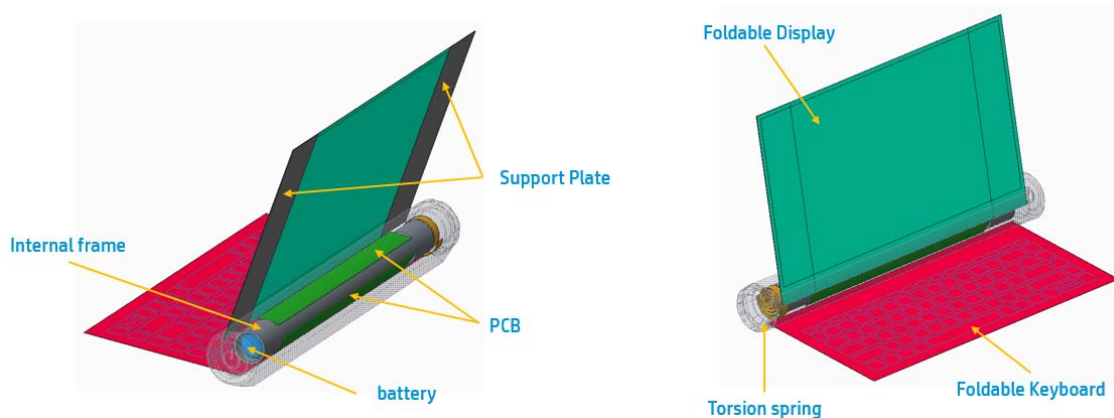
The Foldable PC is with foldable display and foldable keyboard so that these two parts can be collapsed to as a cylinder. The Foldable PC has below benefit compare to regular laptop PC:

- Cylinder shape, easy to carry.
- Compact size.
- Light weight.

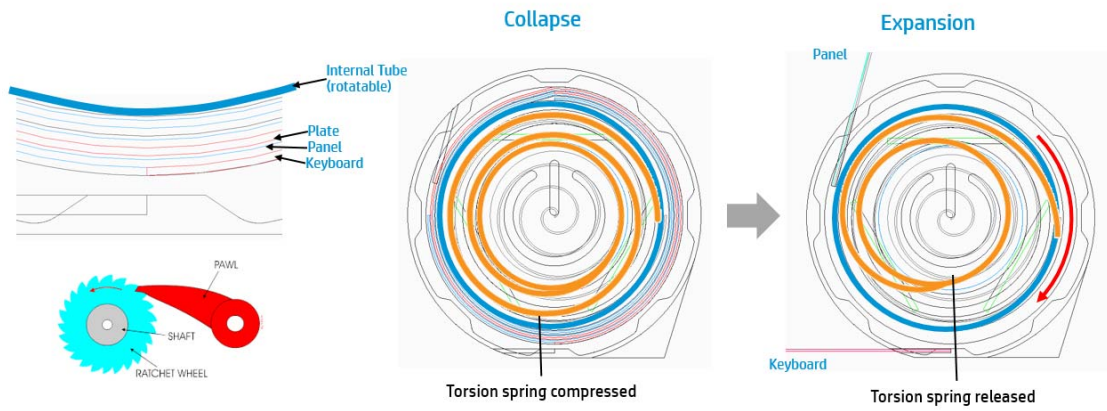


The Foldable PC is consisted of PCB with processor, battery for power supply, antenna for wireless connection, I/O for connect with other devices, foldable display for showing information and foldable keyboard for input, a physical mechanism to pop out the display and keyboard as well as collapse back into the enclosure.

- The foldable display is a film based OLED
- The Keyboard is a film based touch panel
- The display support plate is a kind of shape memory alloy.



The panel, keyboard and panel back plate is scrolled and collapsed on a rotational internal tube. A torsion spring is attached to the tube with compressed force and locked by a latch. The latch could be in form of ratchet wheel and pawl mechanism. Once the latch is released, the torsion spring makes the tube rotate by spring force and pop out the foldable keyboard and panel.



Disclosed by James Pan, KT Wu and Chad Chen, HP Inc.