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November 20, 2018

## SECURITY LOCK MODULE DESIGN

HP INC

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### Recommended Citation

INC, HP, "SECURITY LOCK MODULE DESIGN", Technical Disclosure Commons, (November 20, 2018)  
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## Security lock module design

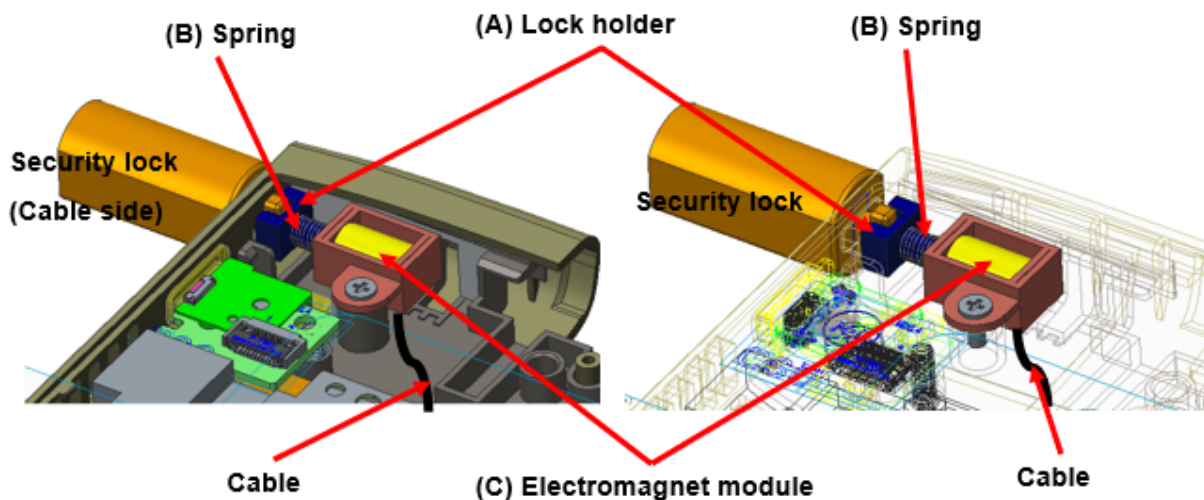
New design concept for Notebook security lock which will not need a key; it can use the user authentication methods to unlock the Notebook.

By using this security lock module design, you will;

- 1) No cable lock key design.
- 2) Use the same way of Notebook login to release the security lock.
- 3) Use the same design of Kensington slot dimension.
- 4) More facilitate and more security.

New security lock module solution:

- Concept:



(A) Lock holder.

(B) Spring. → Push out "Lock holder" to hold security lock (cable side).

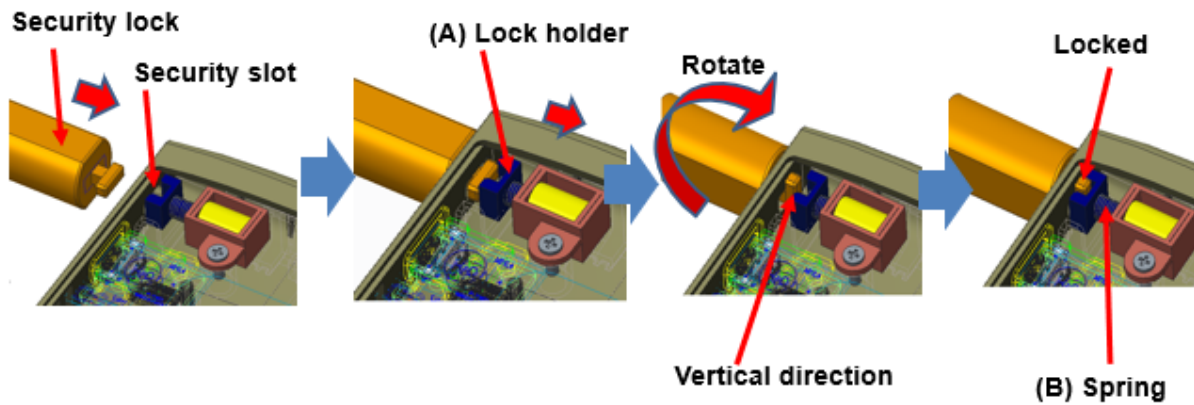
(C) Electromagnet module. → Pull backward "Lock holder" to release security lock (cable side).

- Operating principles:

1) Lock process:

- Insert security lock into security slot.
- Security lock will push "Lock holder (A)" to move backward.
- Rotate security lock to vertical direction.
- Lock holder (A) will move forward by Spring (B) bounced back. Then the lock holder to block the

security lock to rotate.



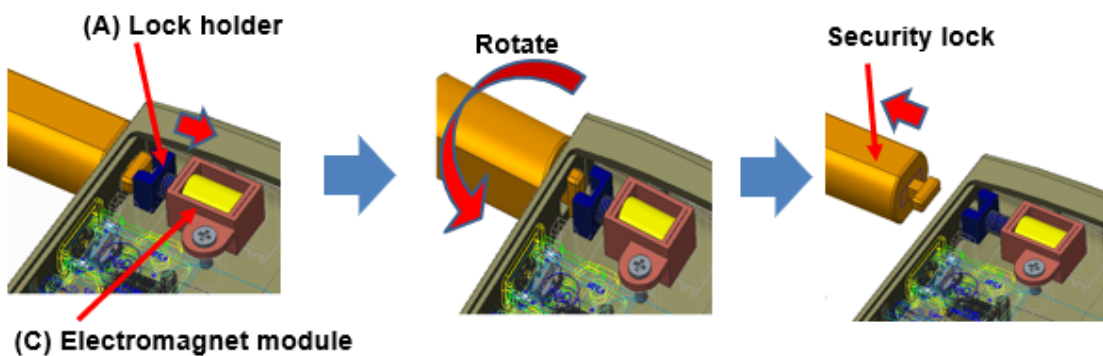
## 2) Unlock process:

- User authorized to release the security lock.

It doesn't have key in lock cable side. User can unlock the Notebook by below methods.

- Password.
- Fingerprint / Iris scan.
- Face recognition
- Ping ID.

- System will send the power to "Electromagnet module (C)". Then to pull backward Lock holder (A).
- Rotate security lock to horizontal direction.
- Release the security lock. (cable side)



*Disclosed by Ben Chuang, Kun-Hung Lin and Roger Chang, HP Inc.*