



# *University of* **HUDDERSFIELD**

## **University of Huddersfield Repository**

Silkstone, Robert, Saxon, Karl, Seal, James and Starling, Jack

A lock shielding door handle that sits flush to the case

### **Original Citation**

Silkstone, Robert, Saxon, Karl, Seal, James and Starling, Jack (2016) A lock shielding door handle that sits flush to the case. In: Secure Societies Institute Launch, 17th March 2016, 3m Buckley Innovation Centre, Huddersfield.

This version is available at <http://eprints.hud.ac.uk/id/eprint/27930/>

The University Repository is a digital collection of the research output of the University, available on Open Access. Copyright and Moral Rights for the items on this site are retained by the individual author and/or other copyright owners. Users may access full items free of charge; copies of full text items generally can be reproduced, displayed or performed and given to third parties in any format or medium for personal research or study, educational or not-for-profit purposes without prior permission or charge, provided:

- The authors, title and full bibliographic details is credited in any copy;
- A hyperlink and/or URL is included for the original metadata page; and
- The content is not changed in any way.

For more information, including our policy and submission procedure, please contact the Repository Team at: [E.mailbox@hud.ac.uk](mailto:E.mailbox@hud.ac.uk).

<http://eprints.hud.ac.uk/>

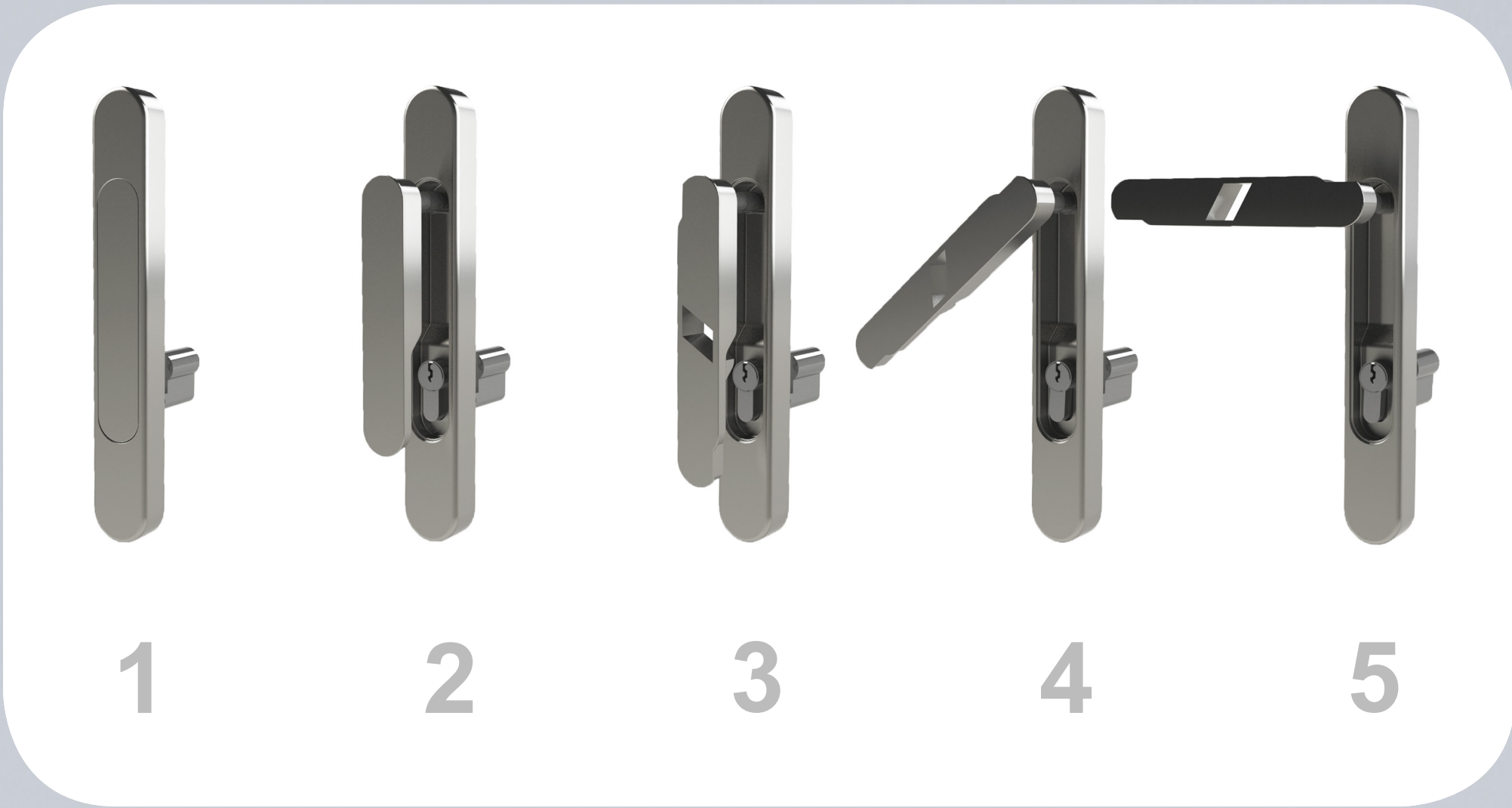


# A lock shielding door handle that sits flush to the case

Product Design BA/BSc Yr.1 Lead Supervisor: R. Silkstone [r.silkstone@hud.ac.uk](mailto:r.silkstone@hud.ac.uk)  
Authors: C. Farrell, K. Saxon, J. Seal, J. Starling

## HANDLYN

This lock shielding handle will sit flush with its casing until presented with a key fob specific to that handle. The handle will then push out and extend uncovering the cylinder lock, and allowing conventional entrance into the household.



### Research question / opportunity

Whilst researching burglaries it was discovered that around 32% of all burglaries involved forced entry. [1] This lead to conceptual ideas around preventing the use of a handle in the event of the cylinder lock being snapped. Additionally, if the cylinder lock could be protected that would provide and advantage. As most burglars are opportunists [2] it was established that having a door handle that looked different from a distance would provide a visual deterrent and aid in discouraging potential criminals.

### Conclusions / recommendations

A development would be an asymmetrical handle with the inside handle having a quick release mechanism to allow people on the inside of the house a fast and easy escape in the event of a fire or emergency. The release mechanism for the handle could in future development be integrated into a Smart-phone app, as well as being integrated into a key fob. This would provide even more security that is personalised to the user and can be controlled with encryption technology.

### References

- Office for National Statistics (2016)  
Retrieved from <http://www.ons.gov.uk/peoplepopulationandcommunity/crimeandjustice/bulletins/crimeinenglandandwales/2015-07-16#robbery>
- Joyce, C. (2016) West Yorkshire Police - Force Crime Prevention Officer