



The problem

Many residential burglaries committed in the United Kingdom are through an external door and sometimes thieves' resort to far more extreme methods to steal property without the house alarm being activated or to gain access to vehicle keys so to start without the alarm, immobilizer and tracking system being activated. These crimes are known as aggravated burglaries here in the United Kingdom and home invasion robberies or forced entries in other parts of the world.



Put simply, once a homeowner has gone to receive a caller at the door and opens the entrance, the caller uses extreme force to gain unlawful entry or alternatively criminals will force unlawful entry through a locked door.

The Solution

Forensic Safety & Security have licensed the Intellectual Property Rights to re-develop, manufacture and exploit this RDS Innovation based on the successes of RDSI.

The previous gas-powered product seen here was developed here in the United Kingdom by R.D.S Innovations and received a product of value award from the Society Of Professional Locksmiths in the USA and was used by Safer St Helens in Merseyside, Safer Worcester & West Mercia Police, Staffordshire Police, Warwickshire Police, Bedfordshire Police & West Midlands Police Force here in the UK in a number of applications including domestic violence, race hate, gender hate, repeat victims of burglary & Asian gold theft.



It was recognised that the certainty of being sprayed with traceable forensic marking fluid would be seen by today's criminals as the ultimate deterrent because when criminals activate this unique door security device its embedded forensic trace technology will link them to *their* crime scenes and with 100% non-malicious evacuation, we believe the deterrent value works.

It was specifically designed to ease the fear associated with doorstep crimes and it assists the Police in the detection and apprehension of intruders by using the latest in UV-based forensic trace technology and can provide the Crown Prosecution Service in the UK and other judiciaries located around the world with irrefutable scientific forensic evidence.



Installed unobtrusively to the inside of the door, this device provides extra resistance to forced entry and a high decibel, disorienting alarm is triggered automatically should the door be forced open. And, in doing so, the intruder will be sprayed with a totally no-toxic unique UV based forensic trace technology which is registered at point of installation and synonymous to the address it has been installed which allows the Police to connect the perpetrator directly to the crime scene and can be used as forensic evidence in a court of law.

How it works



Gas To Battery

Due to the size of the original gas-powered alarm, it made the installation impossible on some door frames so it became essential the product should be re-developed to enable its installation onto more doorframes. R.D.S Innovations did attempt to secure R&D funding through various channels but to no avail due to the personal forward investment that restricted his ability to develop the product further.

Coupled with this the company took out various global patents that eradicated any available funds for further development. Following support from an Innovation and Growth specialist from Innovate UK a new company was formed to license the product and develop it further to commercialisation and building on existing demand developed by RDSI.

This development has identified future features and benefits that can be added to the existing product that will enable it to operate within and in addition to existing security systems and potentially be used in other sectors in building and property protection.

Forensic Offender Marking



SafeTrace™ can utilize a forensic component and UV Identifier provided and hosted by SelectaDNA. This Forensic Trace Technology stains clothes and skin for months.

If a suspect is detained, Police have the ability by way of UV arches situated in Police Station custody areas or using handheld (CSI) UV torches, when shone on a suspect a UV marker will illuminate. The UV marker makes it indicative that forensic trace is present.



NORMAL LIGHT



UV LIGHT



OFFENDER MARKING

With the reduction in size, the device could also deploy, if attacked, an immediate alternative and cost-effective option FARB GEL 20ml offender marking component could be utilized when considering "the golden hour of policing" as the RED DYE deployed remains for up to 7 days.

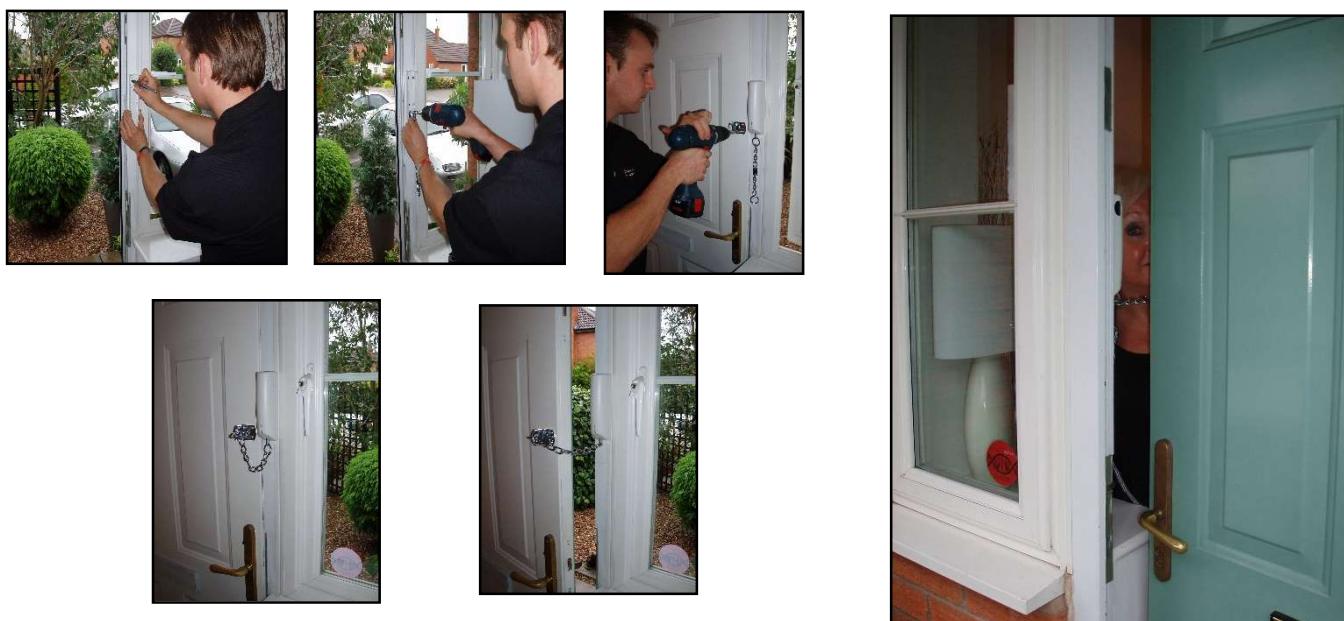
Supplied by TW1000, the global leader in self-defense spray products. Police in 26 countries including the UK choose TW1000 law enforcement spray products. The TiW Farb-Gel-Spray is legal for civilian use and is trusted by millions of people worldwide.

With the increase in use of video doorbells over the past few years, any activation utilizing this product will enable the police with the ability of tracking back to the scene of an activation requesting those homeowners in the vicinity who indeed have video doorbells & CCTV to provide footage as a means of establishing the minutes prior to an attack and indeed the escape route.



Installation

SafeTrace™ (Forensics) must be installed by a registered approved installer, registered locksmith association or security installer. Strict rules need to be adhered to, so that any evidence gathered after a malicious evacuation can be used in the prosecution of offenders in a court of law. We need to be able to clarify the entire history of the canister involved and we need to be able to state that at no time has it entered the public domain. This will ensure that any forensic trace found on a suspect is admissible as evidence in court.



Conclusion

After consultation police officers and victims of crime alike believe SafeTrace™ eases the fear associated with doorstep crimes which are unfortunately occurring more often. It gives the homeowner greater piece of mind when answering a call at their home and are confident that any attempt by the caller to gain unlawful entry into their home will be met with a hi-tech proactive response. Police officers here in the UK believe the strong evidential nature of this security system will reduce illegal intrusion and increase detection rates.

The application of this device works two-fold. From a homeowner's perspective it eases the fear associated with doorstep crime but at the same time it increases the fear of the individuals who perpetrate such criminal offences of getting caught and convicted.

These are a few of the professional bodies who have used the crime reduction benefits that come from having a forensic door alarm installed and home contents insurers who have offered discounts on home contents policies for residents that have forensic door alarms installed globally.

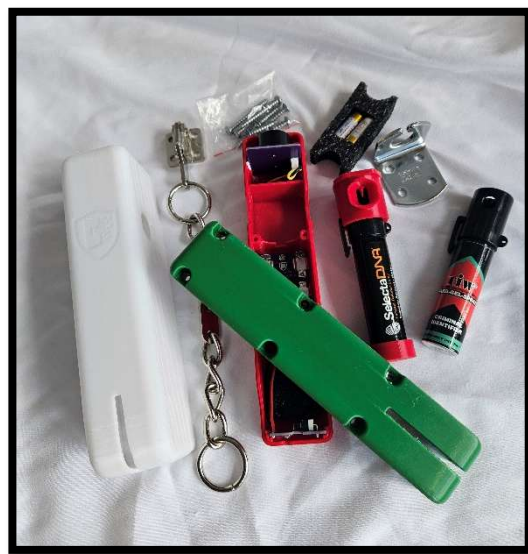


SafeTrace™

SafeTrace™ will be marketed as a stand-alone door security device that if attacked automatically sounds an alarm to alert neighbors and passers-by whilst spraying the attacker with a FARBGEL component. The forensic component will be sold separately by SelectaDNA as an upgrade with the forensic registrations conforming to Loss Prevention Council Standards with the keeping of personal data.

The inventor Robert Simpson has licensed the intellectual property rights regarding his innovation and once manufacture, and certification is complete then the product will be made available to the various target customers that have been identified.

Once manufactured we will be seeking distribution channels through B2B, Home Improvement, Hardware, Locksmith and Alarm Companies and will re-engage the numerous police forces and domestic violence charities who deployed the predecessor.



All Prior Art, Intellectual Property, Design & Copyrights are retained by RDS Innovations Limited.

For more information or to arrange a demonstration contact:

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