ADVERTISMENT





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ww.polygonleakdetection.com

**PTO Pressure Washers** Independantly powered machines idea for heavy duty cycles. Built in UK

Cleaning Equipment Pressure washers, spare parts and accessories, massive range to view.

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Mildew And Fungus At Home Stop The Spread Of Bacteria At Home With The Domestos Product Range.

AdChaices D

to look at cleaning in food preparation. hospitals, manufacturing and the home. The new

and Dr Peter Birkin's

device works with cold

electrical power as a

water, minimal additives

and consumes as much

light bulb, its application

will be wide - licenses

have already been sold

to a number of industries

technology consumes less water and power than the established

competitor technologies.

domestos.co.uk/cleaning

Talking about the need for such a technology, Professor Leighton says:

"Society runs on its ability to clean. Ineffective cleaning leads to food poisoning; failure of manufactured products such as precision watches and microchips; and poor construction - from shipbuilding to space shuttles - since dirty surfaces do not bond. The impact in healthcare is huge – hospital-acquired infections, from instruments that aren't properly cleaned, cost the NHS £1 billion per year. There's a very obvious need for technologies that improve our ability to clean while saving on our most important resources, water and energy."

In recognition of their invention, Professor Leighton and Dr Birkin were today (09 November) awarded the Royal Society Brian Mercer Award for Innovation 2011

Using the £250,000 award from the Royal Society, the team will develop products based on an ultrasonic nozzle which can fit on the end of a tap or hose. The device uses less water and power than the equivalent pressure washer (approximately 2 litres/minute compared to 20 litres/minute and less than 200 W compared to 2kW). It is also far less damaging as the stream pressure is less that 1/100th that of a pressure washer. Another advantage is that it generates far less runoff and aerosol (tiny atmospheric particles of water that can carry contaminates into the air to then settle and contaminate other surfaces). As it is able to use cold water, energy is saved on heating water.

Power washing generates large volumes of contaminated run-off and aerosols presenting a hazard when used e.g. cleaning sewage systems or nuclear contamination. One of the main pieces of equipment currently used for industrial cleaning, ultrasonic cleaning baths, can only clean objects small enough to fit in them and the devices to be cleaned sit in a soup of contaminated liquid. Neither power washing (high-power pressure washing) nor ultrasonic cleaning baths can easily be scaled up and neither can be used on delicate materials such as hands or salad.

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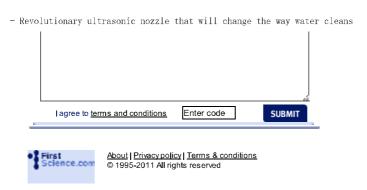
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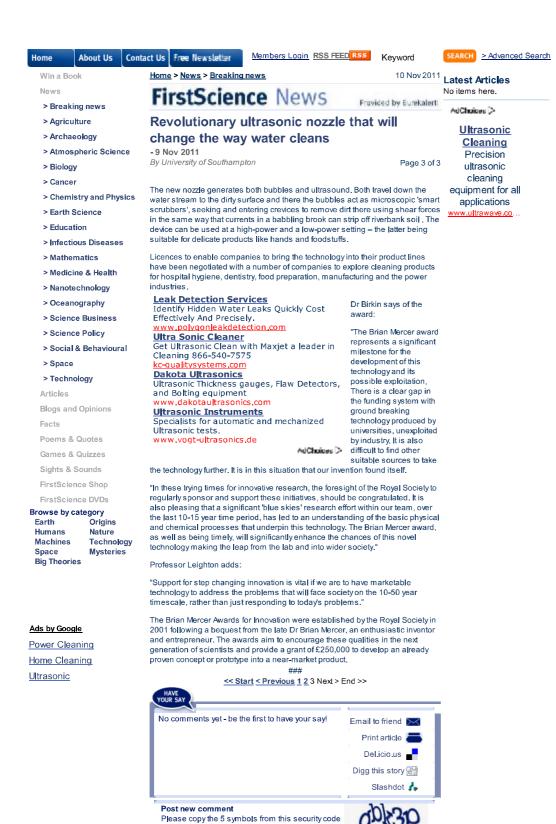
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