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10/11/2011

# Ultrasonic nozzle boosts water's cleansing power

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London, Nov 10 (IANS) A revolutionary ultrasonic attachment for taps boosts water's ability to clean.

Tim Leighton, professor at University of Southampton, and Peter Birkin's device works with cold water, minimal additives and consumes as much electrical power as a light bulb.

Its application will be wide -- licenses have already been sold to a number of industries to look at cleaning in food preparation, hospitals, manufacturing and homes.

Currently, industry uses excessive water, power and additives for cleaning. For example, it can take up to 100 tonnes of water to produce just a tonne of clean wool after shearing, according to a university statement.

Many industrial processes also generate large quantities of contaminated run-off. The water from hosing down an abattoir represents a real health risk and cannot be allowed to enter the water supply.

Purifying run-off is costly -- each cubic metre of water used for cleaning in the nuclear industry can cost around 10,000 pounds to subsequently treat.

'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,' says Leighton.

The impact on healthcare is huge -- hospital-acquired infections from instruments that aren't properly cleaned cost a lot.

The device uses less water and power than the equivalent pressure washer (two litres per minute compared to 20 litres per minute and less than 200 watts, compared to 2,000 watts).

It is also far less damaging as the stream pressure is less than 1/100th that of a pressure washer.

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Ankara: Seven people were killed and 23 injured after a quake measuring 5.6 on the Richter scale hit eastern Turkey, the government said Thursday.



**BJP slams PM's Gilani statement, terms meeting disastrous**  
New Delhi: Taking exception to Prime Minister Manmohan Singh calling his Pakistani counterpart Yousuf Raza Gilani a "man of peace", the Bharatiya Janata Party (BJP) Thursday said the meeting between the two during the SAARC conference in Maldives was "disastrous like Sharm-el-Sheikh".



**Qaddafi's son will face justice: ICC prosecutor**  
The Hague: The arrest of slain Libyan leader Muammar Qaddafi's son Saif Al-Islam Qaddafi is only a matter of time, International Criminal Court (ICC) chief prosecutor Luis Moreno-Ocampo has said.



**18 buildings collapse in Turkey quake**  
Ankara: At least 18 buildings, including two hotels, collapsed in Turkey's Van province after a 5.6-magnitude earthquake struck Wednesday night, officials said.



**China to create 2 mn jobs for social workers**  
Beijing: China is strengthening its social sector by offering about two million job opportunities, having observed the declining number of social workers in the country.

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