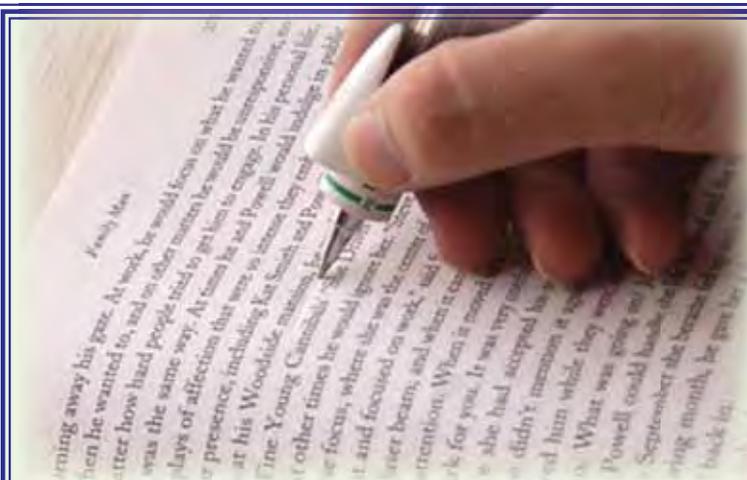




DEVICE POWERS PHONE USING BEVERAGES

This is a compact gadget that ensures you will never have to deal with a dead phone battery again – as long as you have a hot or cold drink handy. The device, roughly the size and shape of a hockey puck, is a small Stirling engine. This type of engine generates energy from temperature differences. This is efficient enough to completely charge a mobile phone, iPod or any other USB-charged device that draws 1000 mA or less. The gadget makes it possible to keep a full battery even when you're away from home or in a foreign country where your phone's charger won't work with the outlets.



HIGH-TECH PEN TRANSLATOR

With so many students choosing to study outside of their home countries, a device like the high-tech pen translator could serve to make the learning experience so much easier. This high-tech pen is a small translator that can help people learning a new language to understand the words they are reading. It comes in two pieces. One piece fits over a pen or pencil and the other part of the device is a USB dongle. When the user is reading and comes across an unknown word, he underlines it with the pen and it instantly projects a translation directly onto the page. The pen grip piece fits neatly into the USB piece for data transfer to and from a computer.

PAIN RELIEF PATCH

Chronic pain affects millions of people and finding an effective treatment for chronic pain relief usually involves a combination of medication and physical therapy, but now an easier way to find relief is available. The stick-on pain relief patch uses Transcutaneous Electrical Nerve Stimulation (TENS), the same low-power electrical shocks used in physical therapy to relieve certain types of pain. This therapy is typically delivered with the use of a small machine and several stick-on electrodes. The patch sticks on the skin like an adhesive bandage. The patch will come with Bluetooth connectivity and pair with a mobile device.



MIND READING HELMET

Taking your shoes off and throwing away your brand new bottle of water might not be the only hassle you have to deal with when passing through an airport. In fact, airport authorities might just take to reading your very thoughts to figure out whether you are a harmless passenger or not. The concept involves a helmet with brush-like metal sensors on the inside. These sensors take the place of the gel and electrodes typically used in EEG. The wearer is shown various images on a visor inches in front of the face, and the EEG measures the level of recognition registered by the brain. The images shown could be anything from a terrorist leader's face to plans for a bomb or any number of other nefarious objects.