GK Library A record of knowledge

The Crystal That Makes Electricity When Pressed: The Piezoelectric Effect

Article URL
https://www.gklibrarykor.com/en/article/11530/

PDF layout preview - excerpt only

Turn the ignition knob on a gas stove and, with a “click,” a small spark jumps. With no battery and no wall outlet, the force of a finger pressing a button alone produces the spark. What on earth is happening inside this small device? The secret lies in a special piece of crystal. In certain solids, electric charge builds up on the surface the moment they are pressed or stretched, and this phenomenon is called the “Piezoelectric Effect.” The key point is that the path from force to electricity and the path from electricity back to force are both contained in a single material. In this article,