09. I am trying to give voice to everyone. 光正在宝坛让每个人都被红 2019 年 5 月 17 日 怎样让不说话的人发声 经济学人 the + adj. 表一类人 How to give voice to the speechless give voice to sb. 让某以声; anyo-海帆的 让某人越来见或情感 -trophic 有营养的 Of the many memorable things about Stephen Hawking, perhaps the most memorable of all was his conversation. The amyotrophic lateral 多生器官的硬化/kan'fain/ 解验的硬化/kən'fain/
sclerosis that confined him to a wheelchair also stopped him talking, so d'what became a world-famous voice. It was, /'sin Oasalz/ Yh though, a laborious process. synthesize(美) synthetic a. 一項限E的任务 为eg. There are many vitamins that the body cannot <u>synthesise</u>. 人种有很多的比较是起来自己叙的。 4self. 发穷限制3彩的超象力. A better way to communicate would be to read the brain of a paralysed 更好的方法 /sin/θetik/a.补释的,斑驳的;不知所物 person directly and then translate those readings into synthetic speech. A study published in Nature this week, by Edward Chang, a neurosurgeon at the University of California, San Francisco, describes just such a technique. synthetic material By measuring the brain signals that control vocal-tract muscles, Dr Chang has been able to use a computer to synthesise speech accurately paralysed from the vaist down 特部以下全部瘫痪了 The volunteers for Dr Chang's study were five people with epilepsy /l'lektroud//im'plænt/ /epilepsi/ n. 注 /epilepsi/ n. 注 / who had electrodes implanted into their brains as part of their treatment.

electro-/electr- 锅也有美 electricity that electrician to I

Labor Day

implant a microchip in a human's body. 将农内极入人的身体。

He and his colleagues used these electrodes to record the volunteers' brain

-lepsy(拿,扶後)

柳

activity while those volunteers spoke several hundred sentences out loud.

eg. They converted the spare bedroom into a study. 他们将一间多出来的卧室转变成了一间书房。

To convert those signals into speech they did two things. First, they convert A into B 14 A14 148 B trained a computer program to recognise what the signals meant. Then, when the program had learned the relevant associations, they used = with this result configure translate electrode signals into vocal-tract configurations, and thus into

sound.

eg. Scientists know little about the

configuration of the moon's surface.

乳门对A:球表面的构造3解的私为

/kan,figja'reifn/n. / his

The principle proved, Dr Chang and his team went on to show that their

system could synthesise speech even when a volunteer mimed sentences,

rather than speaking them out loud.

n、亚剧表演

eg. Some singers on television mine to pre-recorded 一些最好在电机上跟着已经最好的片段

So far, Dr Chang has worked with people able to speak normally. The

stage will be to ask whether his system can work for those who cannot

speak.