

(57) **Abrégé(suite)/Abstract(continued):**

namely, nerve cuffs (30). The implanted nerve cuffs have electrodes (14) which transmit electrical signals generated by a signal generator (12) to nerves (20), recruiting certain neurons to send sensory signals to the cerebral cortex, suggesting sensory sensations to the amputee. Such signals can arise directly from the signal generator, approximating the train of signals seen by the cortex in a normally innervated limb, or can originate from sensors (50a-c) in a prosthetic limb.

