

ABSTRACT

METHOD FOR THE PRODUCTION OF STRETCHABLE ELECTRODES

The invention relates to a method for producing stretchable electrodes, where electrically conductive carbon particles, especially carbon nanotubes, are introduced into a coating comprising an elastomer. In said method, a preparation of non-aggregated carbon particles having an average particle diameter ranging from ≥ 0.3 nm to ≤ 3000 nm in a solvent acts upon a coating comprising an elastomer. The solvent can cause a coating comprising an elastomer to swell. The duration of the action is calculated so as to be insufficient to dissolve the elastomer. Optionally, another electrically conductive layer is applied. The invention also relates to a stretchable electrode obtained in said manner and to the use thereof.

Figure 1