

Title (en)
METHODS AND APPARATUSES FOR STRETCHING POLYMERS

Title (de)
VERFAHREN UND APPARATE ZUR DEHNUNG VON POLYMEREN

Title (fr)
PROCEDE ET APPAREIL D'ETIRAGE DE POLYMERES

Publication
EP 1210578 A4 20070221 (EN)

Application
EP 00955515 A 20000811

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Abstract (en)
[origin: WO0113088A1] The present invention provides structures and methods that allow polymers of any length, including nucleic acids containing entire genomes, to be stretched into a long, linear conformation for further analysis. The present invention also provides structures and methods for selecting and stretching polymers based on their lengths. Polymers are loaded into a device and run through the structures. Stretching is achieved by, *e.g.*, applying shear forces as the polymer passes through the structures, placing obstacles in the path of the polymer, or a combination thereof. Since multiple molecules may be stretched in succession, extremely high throughput screening, *e.g.*, screening of more than one molecule per second, is achieved.

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Citation (search report)
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• [A] WO 9909042 A2 19990225 - CEPHEID [US]
• [A] US 5538898 A 19960723 - WICKRAMASINGHE HEMANTHA K [US], et al
• See references of WO 0113088A1

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