

United States Patent [19]

Cantor et al.

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[54] **GEL INSERTS USEFUL IN ELECTROPHORESIS**

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Related U.S. Application Data

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[51] Int. Cl.⁴ **C12N 11/12**

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[58] Field of Search 524/555; 526/303.1; 252/315.3, 315.1; 264/4.3; 427/213; 428/402.2, 402.22; 435/6, 179, 182; 436/516, 529, 535

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[57] ABSTRACT

Gel inserts comprising a solidified liquid such as agarose suitable for use in an electrophoretic method, lysed cells entrapped within a matrix formed by the solidified liquid and macromolecules such as DNA or intact chromosomes derived from the lysed cells may be advantageously used in electrophoretic separations. The gel inserts are placed directly in a suitable support medium and subjected to one or more electric fields to separate the macromolecules.

7 Claims, 14 Drawing Figures