

[54] **ELECTROPHORESIS APPARATUS**

[76] Inventors: **Henk Van Welzen**, 5 Koningin Emmalaan, Den Hoorn; **Marius Hendrik Johan Zuidweg**, Rietveldsetoorn, Delft, both of Netherlands

[22] Filed: **Oct. 25, 1972**

[21] Appl. No.: **300,597**

[30] **Foreign Application Priority Data**

Nov. 8, 1971 Netherlands..... 7115364

[52] U.S. Cl..... **204/299, 204/180 G**

[51] Int. Cl..... **B01k 5/00**

[58] Field of Search..... 204/180 G, 180 R, 204/299

[56]

**References Cited**

**UNITED STATES PATENTS**

3,129,158	4/1964	Raymond et al.....	204/180 G
3,135,674	6/1964	Ruetschi.....	204/299 X
3,326,790	6/1967	Bergrahm.....	204/180 G
3,346,479	10/1967	Natelson.....	204/299 X
3,539,493	11/1970	Dorman.....	204/299
3,575,841	4/1971	Harris.....	204/299

*Primary Examiner—John H. Mack*  
*Assistant Examiner—A. C. Prescott*  
*Attorney—Martin Fleit et al.*

[57] **ABSTRACT**

A preparative electrophoresis apparatus, comprising a funnel-shaped zone for the electrophoresis gel which is open at the upper side, a zone for circulating a first buffered solution thereabove containing a first electrode, said funnel-shaped zone at its lower end passing into a narrow aperture provided with a bottom enabling liquid to pass but to support the gel, said narrow opening being in connection with an elution chamber being directly connected to an outlet, said elution chamber being further connected to a small conical jacket around the funnel-shaped zone, said conical jacket being connected with a zone containing a second electrode and being provided with an inlet for circulating a second buffered solution, said inlet being situated between the zone containing the second electrode and the elution chamber, said elution chamber further being provided with a downwardly directed outlet for the eluate, the apparatus further comprising means for cooling the liquids and the gel, this apparatus permitting a high separation force.

**12 Claims, 3 Drawing Figures**

