

06-13-2001



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<p>1. Name of party or parties conveying an interest:</p> <p style="text-align: center; font-size: 1.5em;">6-7-01</p> <p>David E. Lowery Michael J. Kennedy</p>	<p>2. Name and address of party or parties receiving an interest:</p> <p>Name: PHARMACIA & UPJOHN COMPANY, a Delaware Corporation</p> <p>Address: Global Intellectual Property Building 209 301 Henrietta Street</p> <p>City: Kalamazoo State: Michigan Zip: 49001</p>
<p>3. Description of the interest conveyed:</p> <p><input checked="" type="checkbox"/> Assignment</p> <p><input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Security Agreement</p> <p>Execution Dates: May 18, 2001</p>	<p>Other:</p>
<p>4. Application number(s) or patent number(s). Additional sheet attached?</p> <p>YES <input type="checkbox"/> NO <input checked="" type="checkbox"/></p> <p>A. Patent Application no.(s): 09/809,524 filed March 15, 2001</p>	<p>If the document is being filed together with a new application, the execution date of the application is:</p> <p>B. Patent no.(s):</p>
<p>5. Name and address of party to whom correspondence concerning this cover sheet should be mailed:</p> <p>Name: Li-Hsien Rin-Laures, M.D. Reg. No. 33,547</p> <p>MARSHALL, O'TOOLE, GERSTEIN, MURRAY & BORUN</p> <p>Street Address: 6300 Sears Tower 233 S. Wacker Drive</p> <p>City: Chicago State: Illinois Zip: 60606-6402</p>	<p>6. Number of applications and/or patents identified on this cover sheet: 1</p> <p>7. Amount of fee enclosed or authorized to be charged: \$40.00</p> <p>8. Any additional required fee may be charged, or any overpayment credited to our deposit account: 13-2855</p>

9. To the best of my knowledge and belief, the information contained on this cover sheet is true and correct and any copy submitted is a true copy of the original document.

Date: 6/5/01

Li Hsien Rin-Laure
Li-Hsien Rin-Laures, M.D.
Reg. No. 33,547

Total number of pages including cover sheet, attachments, and document: 4

ASSIGNMENT

Title: SALMONELLA VACCINE MATERIALS AND METHODS

Inventors: David E. Lowery and Michael J. Kennedy

Serial No.: 09/809,524

Filing Date: March 15, 2001

Docket No.: 28341/6114.N

Country: USA

Execution Date of Application:

As a below-named inventor, I hereby declare that:

My post office address is as stated below under my signature and I am named as inventor of the inventions or discoveries (herein INVENTIONS) as described in the patent application (herein APPLICATION) identified above. In view of valuable consideration, receipt thereof being hereby acknowledged, I do hereby assign and transfer unto PHARMACIA & UPJOHN COMPANY, a corporation of the State of Delaware having a place of business at Kalamazoo, Michigan, its successors and assigns, my entire interest in, and the full and exclusive right to, the INVENTIONS, the APPLICATION and all related applications (including all divisions, reissues, continuations, and extensions thereof) and all counterparts in other countries, and any and all Letters Patent (and certificates of invention or similar certificates) (herein PATENTS) which may be granted based upon the INVENTIONS or the APPLICATION or related applications or counterparts in other countries; said transfer and assignment being applicable throughout the world. I hereby authorize and request officials of patent offices in any and all countries of the world to issue any and all of the PATENTS, when granted, to PHARMACIA & UPJOHN COMPANY, its successors and assigns, as the assignee of my entire right, title, and interest in and to the same. I agree that I will communicate to PHARMACIA & UPJOHN COMPANY, or its representatives, any facts known to me respecting the invention; testify in any legal proceedings; sign all lawful papers; execute all divisional, continuation, substitution, renewal, and reissue applications; execute all necessary assignment papers to cause any and all of the PATENTS to be issued to PHARMACIA &

UPJOHN COMPANY; make all rightful oaths; and generally do everything possible to aid PHARMACIA & UPJOHN COMPANY, its successors and assigns, to obtain and enforce proper protection for the INVENTION in any and all countries throughout the world.

FULL NAME OF FIRST/SOLE INVENTOR: David E. Lowery

Signature of Inventor: David E. Lowery

Address: 1207 Woodland Drive, Portage, Michigan 49024 United States of America

STATE OF MICHIGAN
COUNTY OF KALAMAZOO

On May 18, 2001, the above-named inventor personally appeared before me and executed the foregoing instrument and acknowledged the same to be his/her free act and deed in and for the purposes set forth in said instrument.

SEAL _____

Debra J. Marquette
Notary Public

DEBRA J. MARQUETTE
Notary Public, Kalamazoo County, MI
My Commission Expires 9/25/2004

FULL NAME OF SECOND/JOINT INVENTOR: Michael J. Kennedy

Signature of Inventor: Michael J. Kennedy

Address: 2364 Quincy Avenue, Portage, Michigan 49024 United States of America

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Debra J. Marquette
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