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สำนักบริหารงานวิจัยและนวัตกรรมพระจอมเกล้าลาดกระบัง

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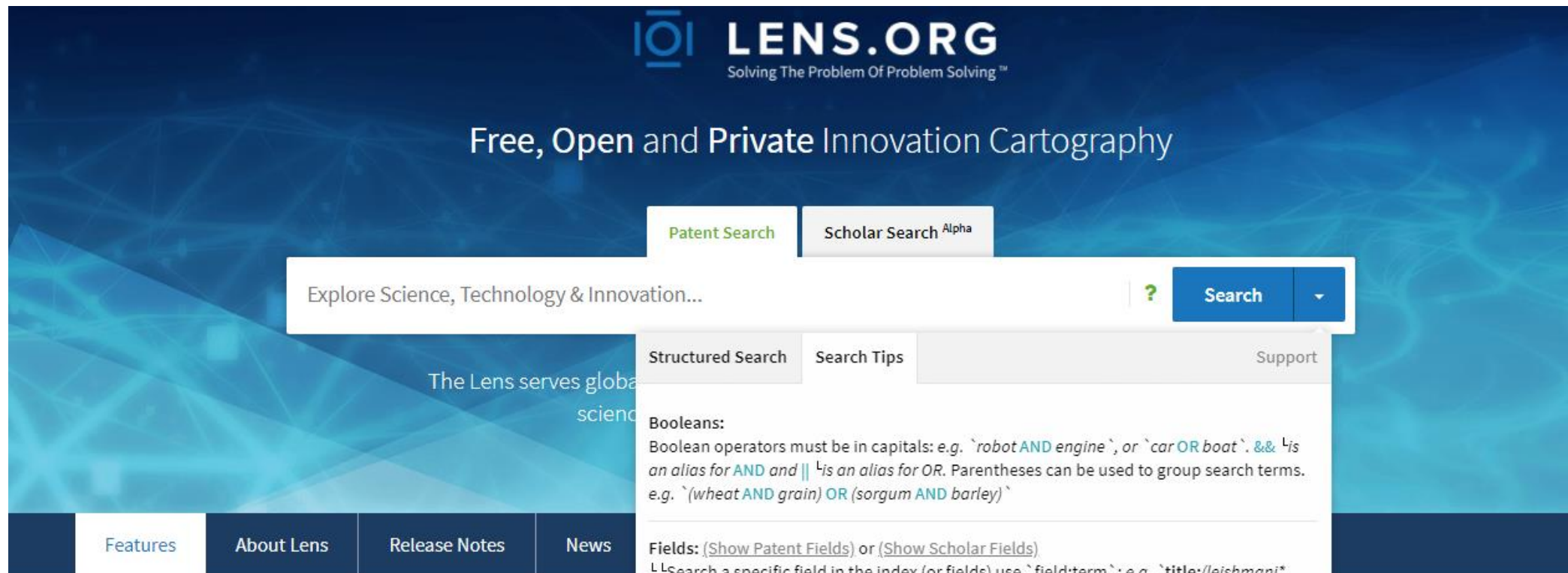
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Devices And Methods For Integrated Continuous Manufacturing Of Biological Molecules



Granted Patent



Published: Apr 13, 2016 Family: 62 Cited: 0 Info: [Full text](#)  
Applicant: Bayer Healthcare Llc

EP 1807101 B1

[lens.org/143-040-011-889-063](https://lens.org/143-040-011-889-063)



Devices And Methods For Integrated Continuous Manufacturing Of Biological Molecules



Granted Patent



Published: Sep 15, 2015 Family: 62 Cited: 0 Info: [Full text](#) [Published](#)  
Owner: Bayer Healthcare Llc

US 9133433 B2

[lens.org/156-397-137-015-39X](https://lens.org/156-397-137-015-39X)



Method For Continuous Production Of Fermented Dairy Products



Patent Application



Published: Dec 17, 2009 Family: 2 Cited: 11 Info: [Full text](#)  
Owner: General Mills Inc

US 2009/0311378 A1

[lens.org/019-599-216-106-570](https://lens.org/019-599-216-106-570)



Production Of Butanol By A Continuous Fermentation Process



Granted Patent



Published: May 28, 1985 Family: 18 Cited: 36 Info: [Full text](#)  
Owner: Michigan Biotechnology Institute A Michigan Not-profit Corp, Cpc International Inc

US 4520104 A

[lens.org/132-219-848-498-233](https://lens.org/132-219-848-498-233)



Process For The Production Of Cheese



Granted Patent



Published: Aug 25, 1987 Family: 1 Cited: 31 Info: [Full text](#)  
Owner: Dec International Inc. A Corp Of Wi

US 4689234 A

[lens.org/007-678-298-057-513](https://lens.org/007-678-298-057-513)

- Mar 4th 2018, 15:53

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process;

(c) removing particulate contaminants from the tissue culture fluid in the **continuous** particle removal process to produce a clarified tissue culture fluid containing the protein of interest;

(d) transferring the clarified tissue culture fluid to a **continuous** purification process integrated with the **continuous** particle removal process, wherein the **continuous** purification process is ultrafiltration and the clarified tissue culture fluid is filtered at a specific flow rate that produces a wall concentration less than 20% greater than a retentate concentration; and

(e) purifying the protein of interest from the clarified tissue culture fluid in the **continuous** purification process;

wherein the specific flow rate of the mixture through the **continuous** perfusion **fermentation** process, **continuous** particle removal process and **continuous** purification process is maintained substantially constant.

2. The process according to claim 1, wherein the clarified tissue culture mixture is filtered at a specific flow rate so that a wall...Read More

Applicants

- Bayer Healthcare Llc

Inventors

- Vogel Jens
- Giovannini Roberto
- Konstantinov Konstantin B
- Nguyen Huong
- Wu Peng

CPC Classifications

- B01D2311/14
- B01D2311/16
- B01D2313/10
- B01D2313/18
- B01D2317/04
- B01D61/145
- C07K1/14



Document History

Publication: Apr 13, 2016

EP 1807101 B1

Application: Sep 30, 2005

EP 05800224 A

Priority: Sep 30, 2005

US 2005/0035364 W

Priority: Sep 30, 2004

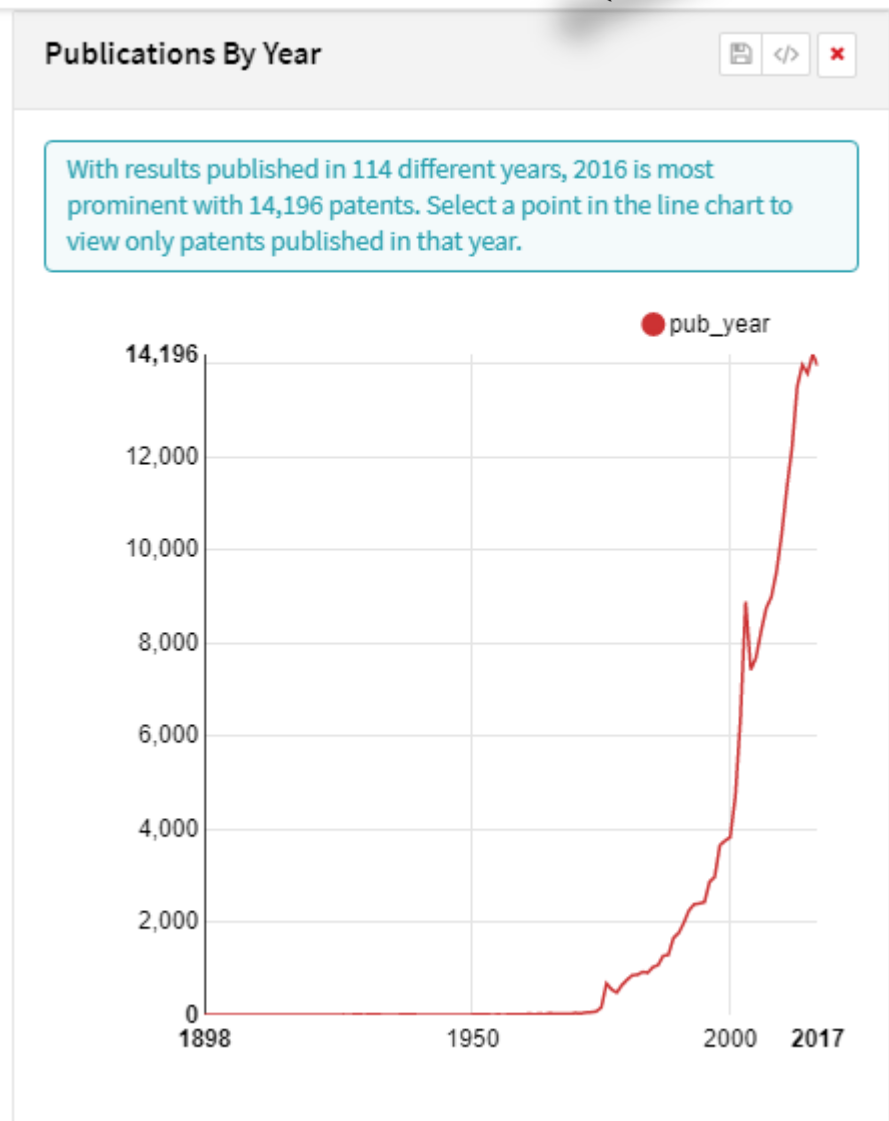
US 61499504 P





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### Graphical Analysis










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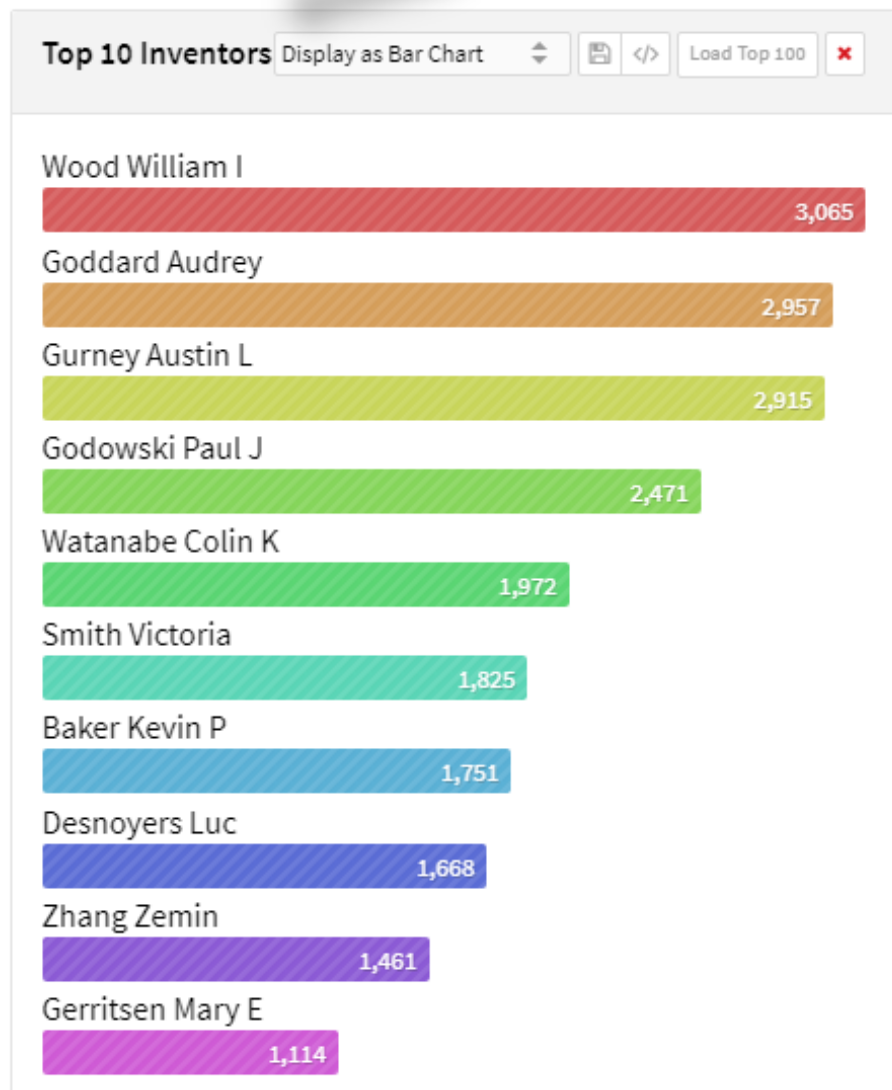
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Genentech				NESTEC SA
5,607	3,024	2,628	1,567	1,453
			UNIV CALIFO...	
1,426	1,337	1,218	1,184	1,141

## Graphical Analysis

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