June 23, 2006

Patents as a Source of Competitive Intelligence Information.pdf

Jan Comfort, *Clemson University*

Patents as a Source of Competitive Intelligence

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What is Competitive Intelligence?

"… the identification of strategically important corporate intelligence (knowledge) needs and the process of resolving those needs through ethical information-gathering, analysis, and the presentation of such analysis to clients (internal or external)."

Jim Underwood. Competitive Intelligence. London: Capstone Publishing. 2002.

It is estimated
that 80% of information found in patents is unique.

Office of Technology Assessment and Forecasting. Eighth Report. Washington, DC: GPO. 1974.

Patent literature vs. Journal literature

Patents

- Usually no theoretical discussion
- Different writing style; uses legal terminology
- Keywords may even be different
- Will usually give one example with full detail
- Technology is generally in the early stage

Journals

- Written to document original research as opposed to solving a problem
- Goes through a review process before being published
- Research may use the patented process, but research results are what's important

Sources of Patent Information

- PTDLs
  - Special resources furnished by the PTDLP
  - Expert Searchers
- uspto.gov
  - Statistical reports
  - Full-text databases
- Other multi-subject databases such as LEXIS-NEXIS
- Scientific Databases

Databases with Patent Information

- **Various CSA databases**
- **Web of Science**
- **SciFinder Scholar**
- Biosis
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Case Study for competitive intelligence

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... aggregates into novel weblike microstructures. The aggregates are porous and have a surface area greater than 300 m2/g. Bright blue ***photoluminescence*** from the weblike nanoparticle silica is observed upon irradiation with ultraviolet light.
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Database: Ceramic Abstracts/World Ceramics Abstracts
Descriptors: SILICA | NANOPARTICLES | VAPORISATION | MICROSTRUCTURES | AGGREGATES

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Database: Ceramic Abstracts/World Ceramics Abstracts
Descriptors: lanthanides | fluorides | phosphors | ***luminescent*** materials | cerium

3. **Lanthanum lutetium oxide phosphor with cerium *luminescence***
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Descriptors: phosphors | lutetium |

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Author(s): Allan JM, Wrana JS, Linden DE, Shalaby SW, Farris H, Budsberg S, Dooley RL

Source: CRITICAL REVIEWS IN BIOMEDICAL ENGINEERING 28 (3-4): 377-382 2000

Document Type: Article

Language: English

Abstract: Through the use of two animal models, the present study demonstrates the ability of phosphonylated surfaces to bind bone. In one model, surface-treated polypropylene (PP) and polyethylene (PE) were implanted in the medial cortex of the goat tibia. In the second model, surface-treated poly(ether-ether ketone) (PEEK) and carbon fiber-reinforced PEEK (CFR-PEEK) were implanted through both cortices of the goat mandible. Selected rods of all material types were microtextured using crystallization induced microphase separation, a method for the formation of continuous, open-cell microporous surfaces in thermoplastic polymers.' Microtextured and smooth rods were phosphonylated, and calcium was subsequently introduced to the phosphonylated surface by incubating the samples in a saturated solution of calcium oxide.(2-4) For all substrate materials tested, phosphonylation and calcium posttreatment resulted in an increased propensity for bone binding and apposition, as measured by push out test. Microtextured PP, PE, and CFR-PEEK surfaces that were further phosphonylated and calcium treated resulted in test samples with an increased interfacial strength.

Author Keywords: bone fixation; phosphonylation; polymer

KeyWords Plus: CORTICAL BONE; HYDROXYAPATITE; INTERFACE

Addresses: Allan JM (reprint author), Poly Med Inc, Westinghouse Rd, Pendleton, SC 29670 USA
Poly Med Inc, Pendleton, SC 29670 USA
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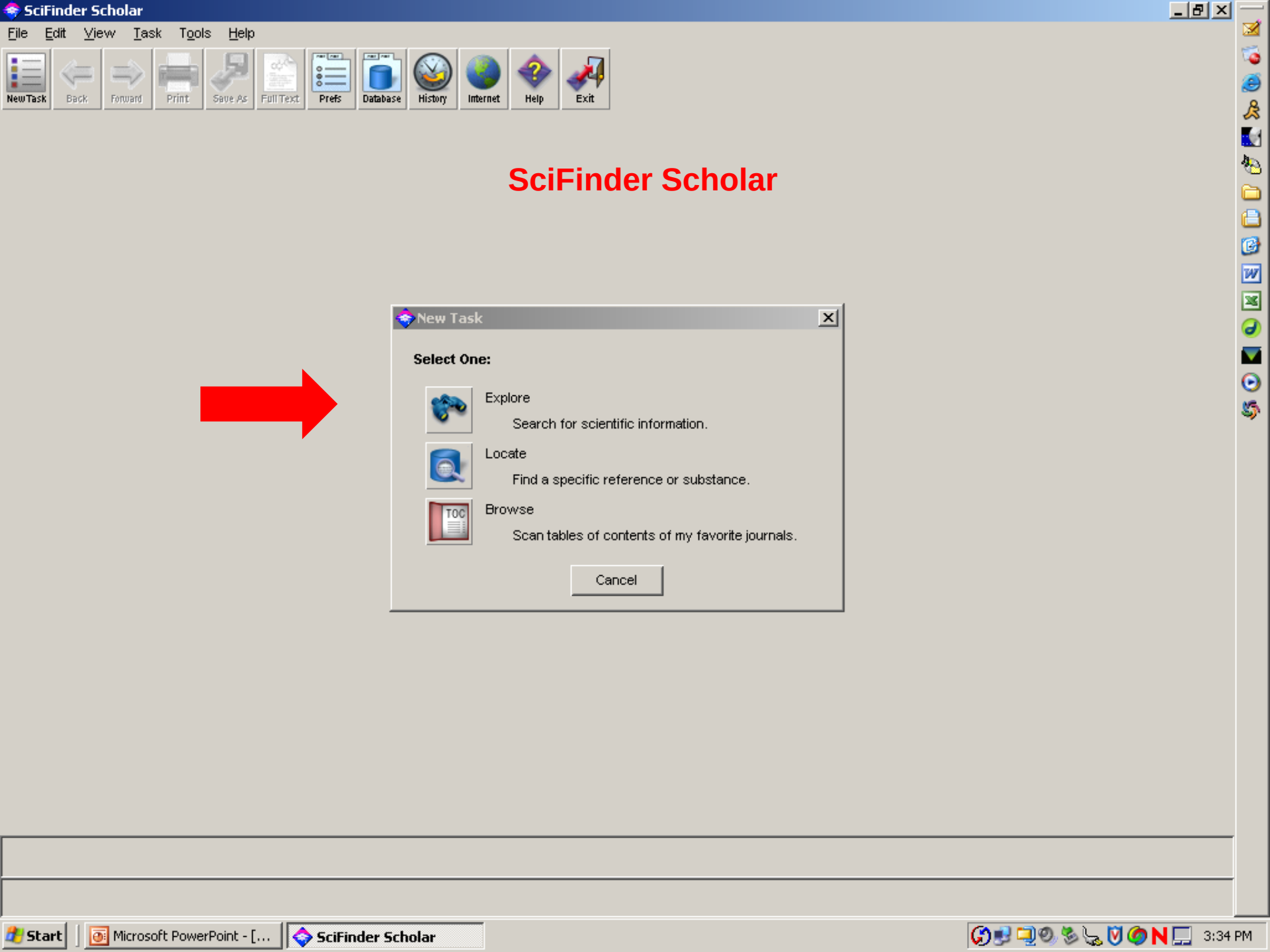
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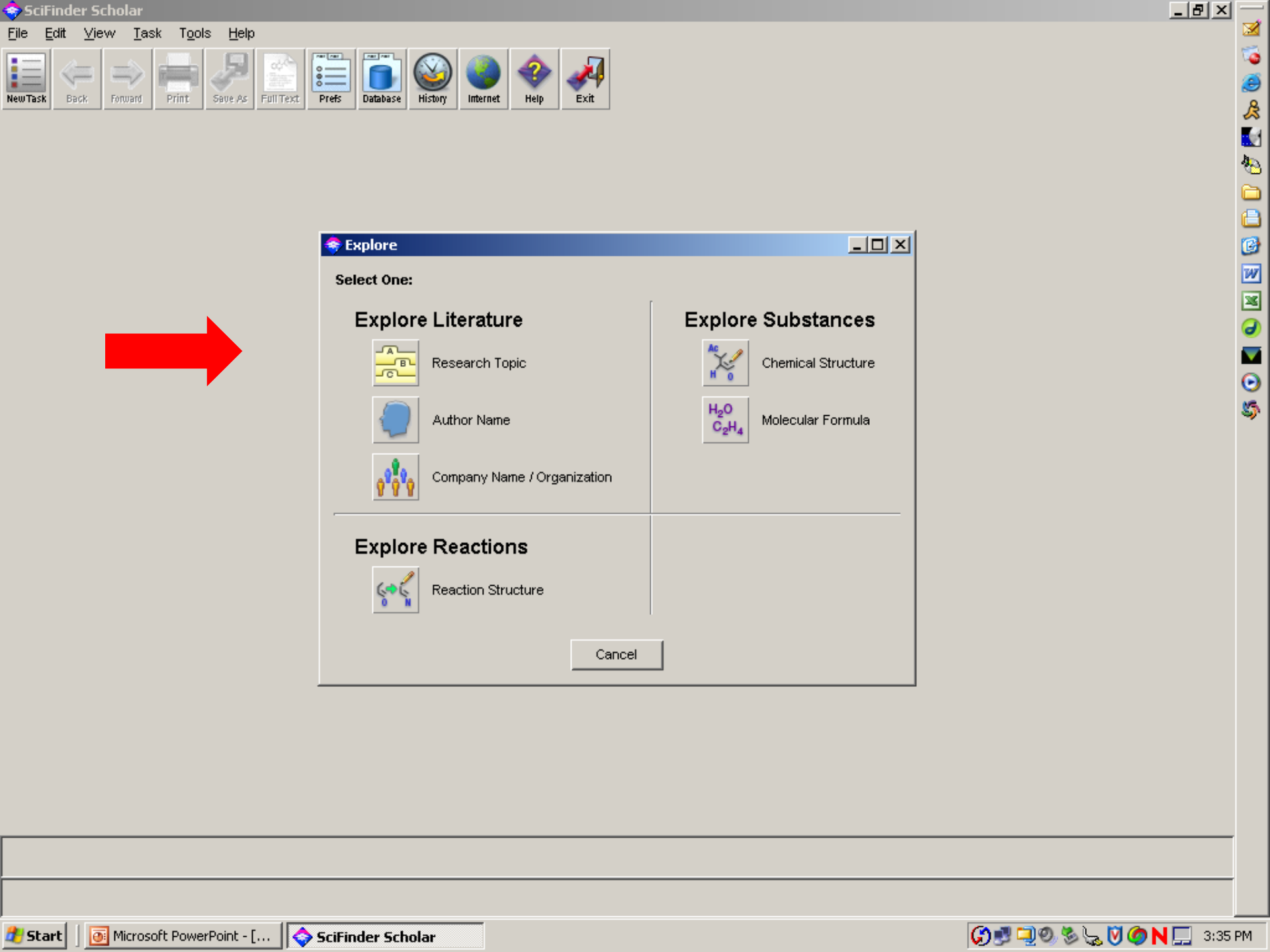
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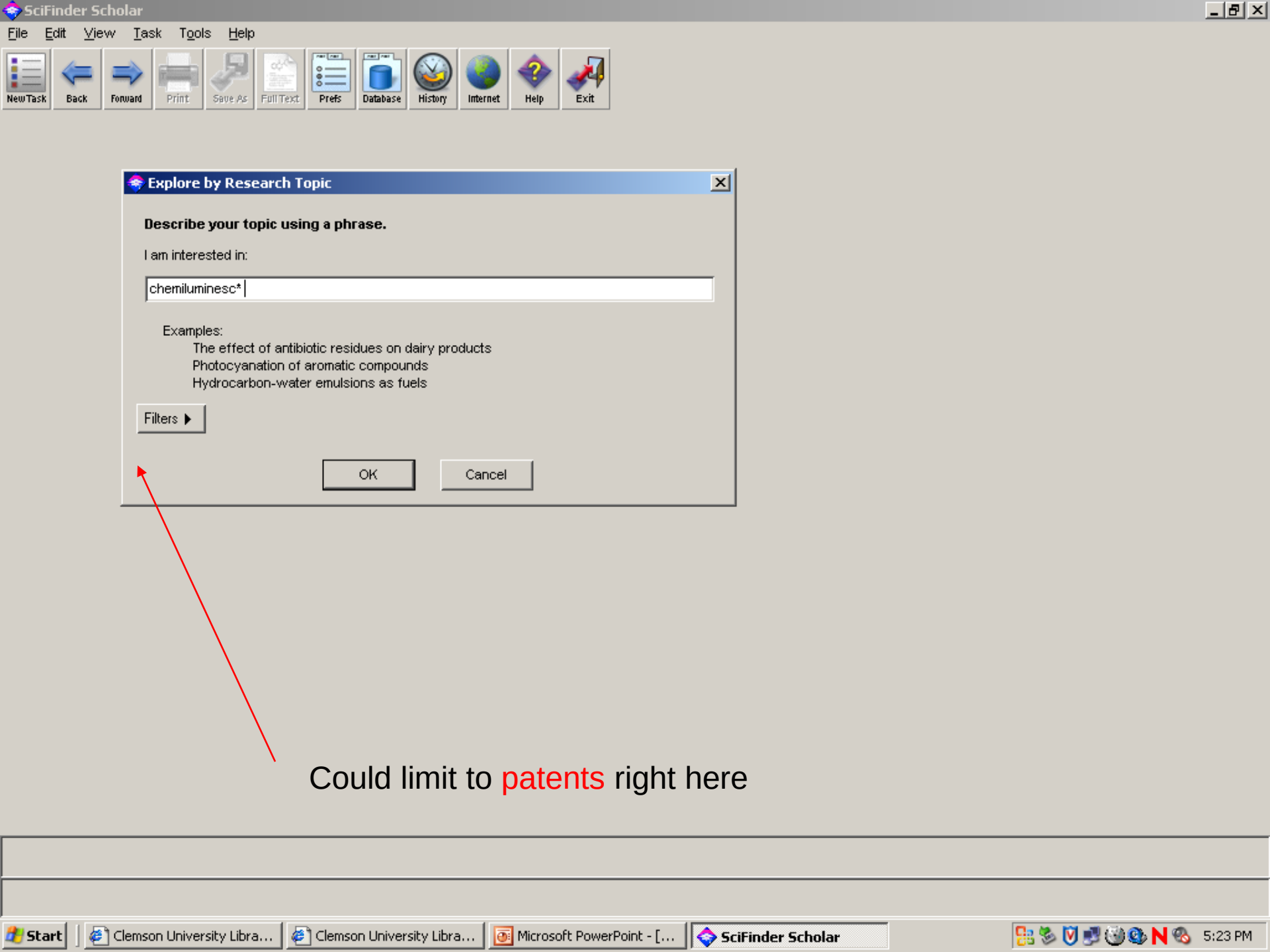
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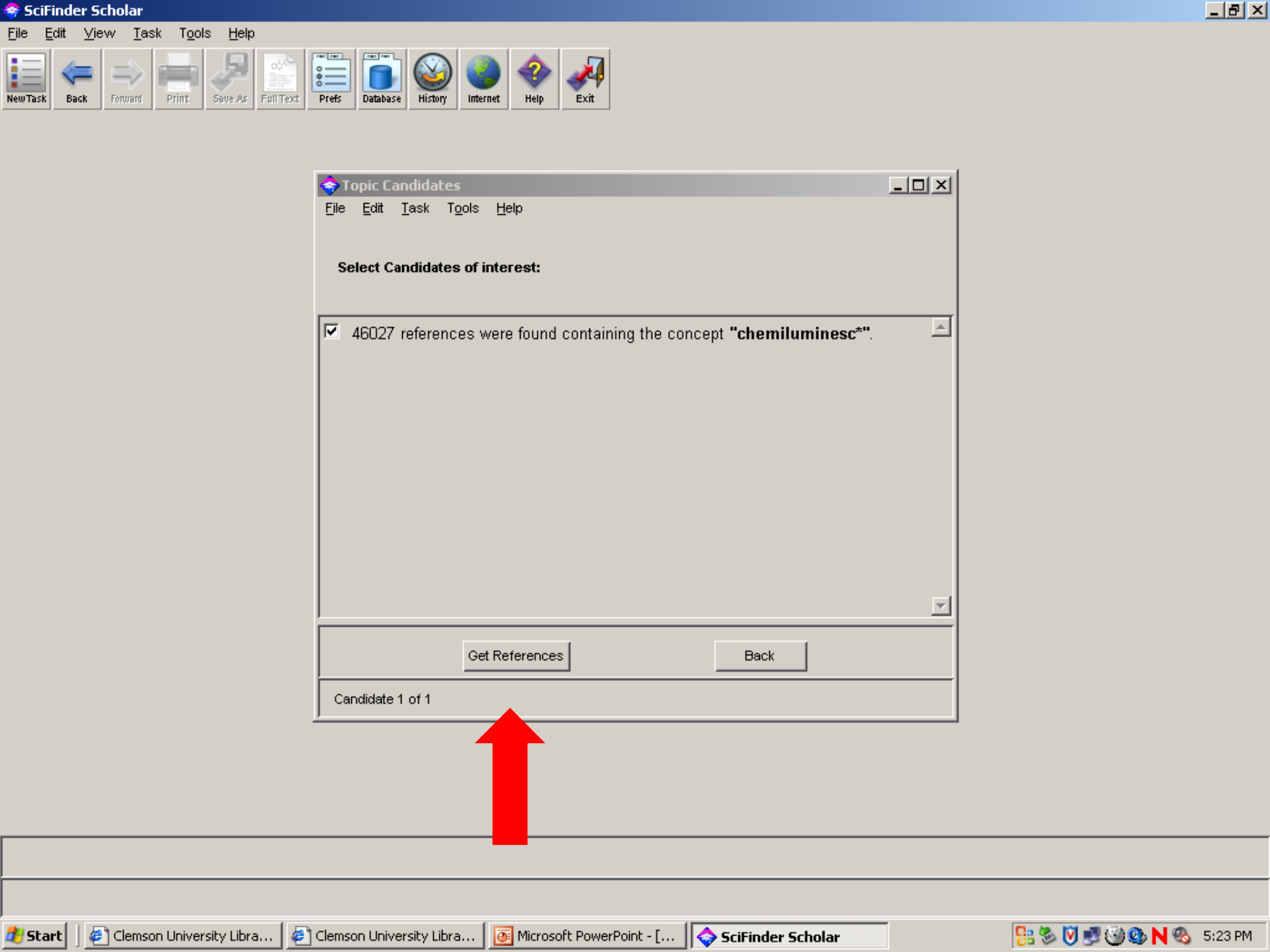
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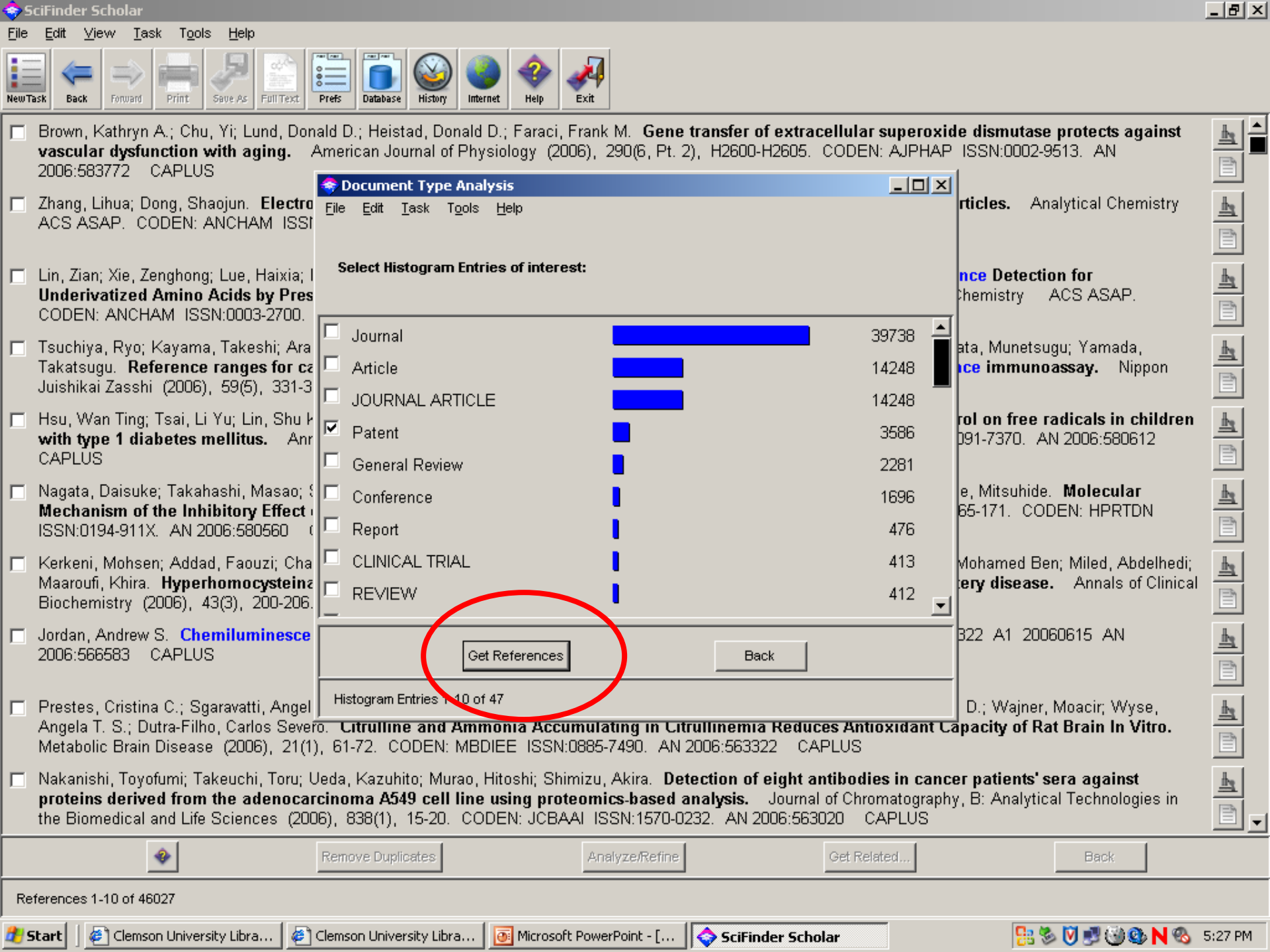
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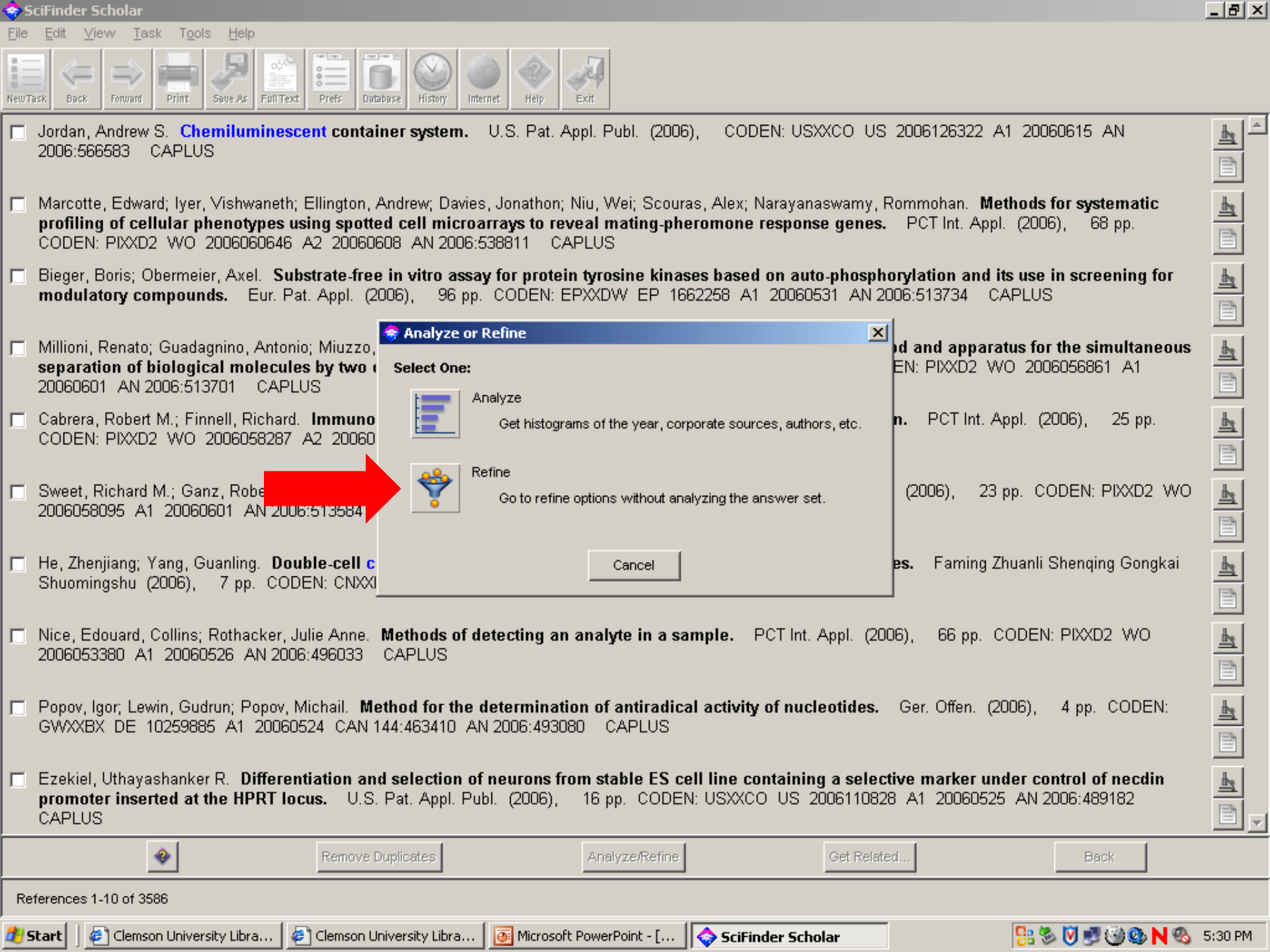
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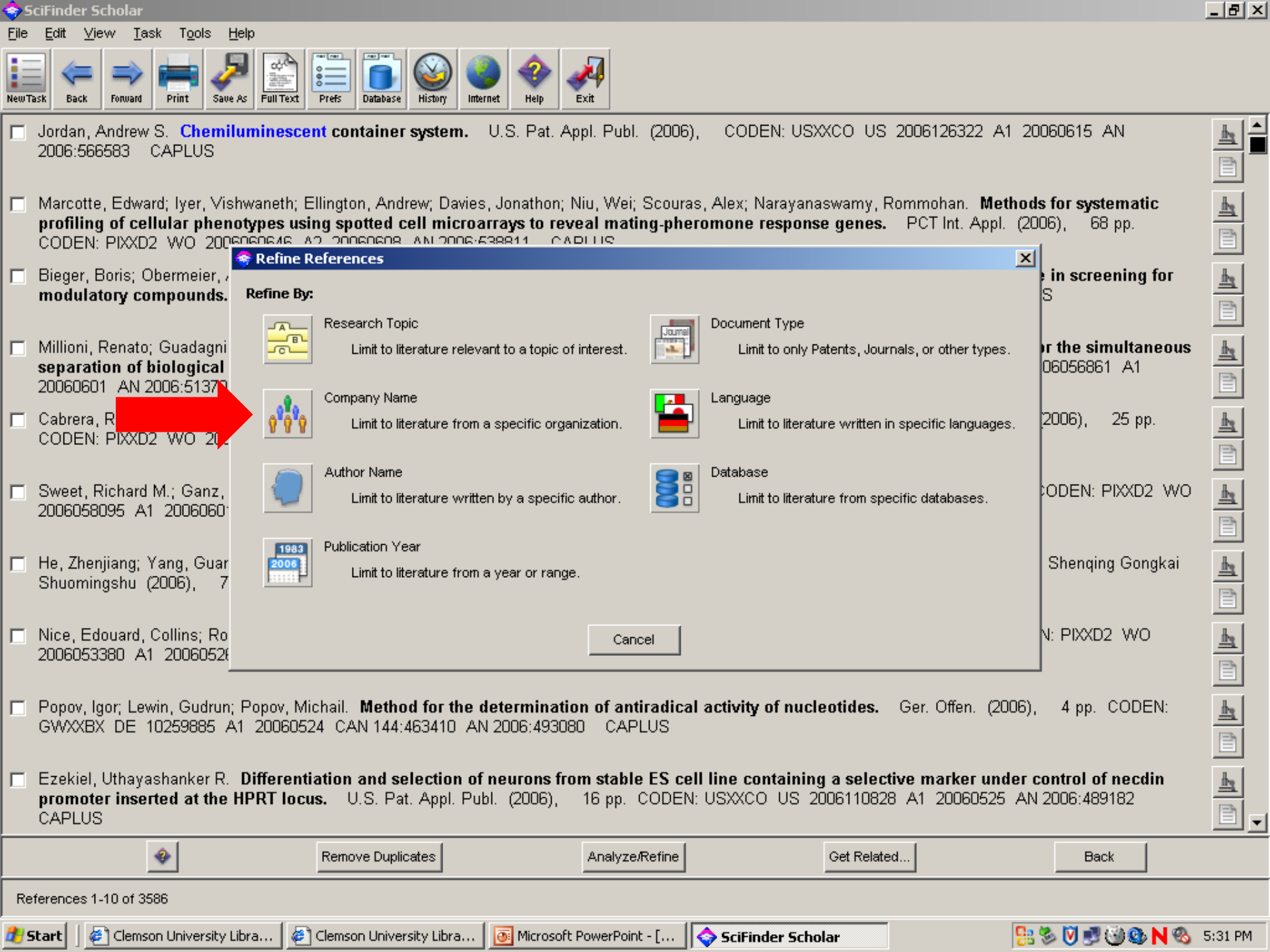
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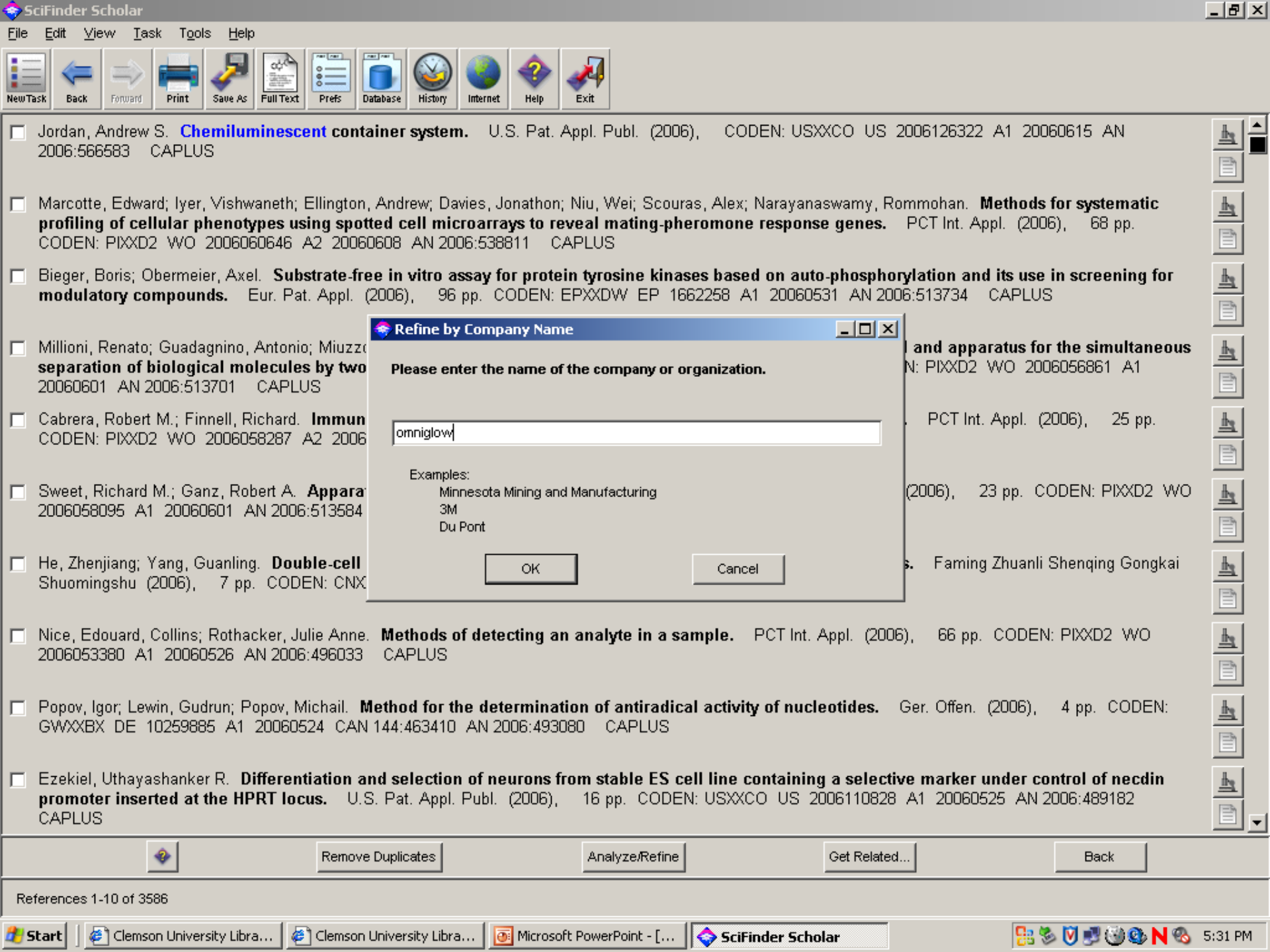
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Patent Family Information

Patent No.	Kind	Date	Application No. Date
US 6106129	A	20000822	US 1999-252301 19990218

Priority Application	
US 1999-252301	19990218

Abstract

Chemiluminescent devices are described which comprise a light-filtering thermoformed container having an inner cavity contg. chemiluminescent reagents and a plurality of particles contg. a secondary fluorescer so that activation of the chemiluminescent reagents produces a primary source of chemiluminescent light having a color which, when transmitted throughout the container, provides illumination by excitation of the secondary fluorescer and consequent emission of a differently colored light from the particles. The particles may have a particular geometrical shape (e.g., a star or heart shape) and further contain a secondary fluorescer capable of being excited by the primary chemiluminescent light source so as to emit a secondary source of light which creates a glitter effect.

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United States Patent **6,106,129**

Cranor , et al. **August 22, 2000**

Chemiluminescent device having particles with secondary fluorescer for enhance illumination

Abstract

A chemiluminescent illuminated novelty device employing a a light-filtering thermoformed vessel having a form for holding chemiluminescent reagents, e.g. a round shaped chemical holding section. The lighting effects generated by reaction of the chemiluminescent reagents are enhanced by the presence of particles containing a secondary fluorescer. In one embodiment, these particles may have a particular geometrical shape, e.g. a star or heart shape, and further contain a secondary fluorescer capable of being excited by the primary chemiluminescent light source so as to emit a secondary source of light which creates a glitter effect.

Inventors: **Cranor; Earl** (Longmeadow, MA); **Kaplan; Fred** (Longmeadow, MA)

Assignee: **Omniglow Corporation** (West Springfield, MA)

Appl. No.: **252301**

Filed: **February 18, 1999**

Current U.S. Class: **362/34** ; 250/462.1; 250/464.1; 250/504H; 250/504R; 252/700; 362/101; 362/104; 362/318; 362/84

Assignee: **Omniglow Corporation** (West Springfield, MA)
Appl. No.: **252301**
Filed: **February 18, 1999**

Current U.S. Class: **362/34** ; 250/462.1; 250/464.1; 250/504H; 250/504R; 252/700; 362/101; 362/104; 362/318; 362/84

Field of Search: 362/34,84,101,318,104,166,171,178 252/700 250/462.1,464.1,503.1,54R,54H

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Primary Examiner: O'Shea; Sandra
Assistant Examiner: Negron; Ismael
Attorney, Agent or Firm: McHale & Slavin

Claims

What is claimed is:

1. A chemiluminescent device comprising:

light-filtering thermoformed container having an inner cavity containing chemiluminescent reagents;

a plurality of particles containing a secondary fluorescer;

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	PAT. NO.	Title
1	7,028,687	Escape hood
2	6,860,614	Chemiluminescent jewelry and accessories
3	6,779,903	Multi-structure lighting device
4	6,672,552	Supporting rod assembly providing luminous decorating effect
5	6,619,808	Chemiluminescent device having a multi-colored casing and method therefor
6	6,520,656	Ornament for body ornamentation or decoration using chemical light

United States Patent **6,106,129**
Cranor , et al. **August 22, 2000**

Chemiluminescent device having particles with secondary fluorescer for enhance illumination

Abstract

A chemiluminescent illuminated novelty device employing a a light-filtering thermoformed vessel having a form for holding chemiluminescent reagents, e.g. a round shaped chemical holding section. The lighting effects generated by reaction of the chemiluminescent reagents are enhanced by the presence of particles containing a secondary fluorescer. In one embodiment, these particles may have a particular geometrical shape, e.g. a star or heart shape, and further contain a secondary fluorescer capable of being excited by the primary chemiluminescent light source so as to emit a secondary source of light which creates a glitter effect.

Inventors: **Cranor; Earl** (Longmeadow, MA); **Kaplan; Fred** (Longmeadow, MA)
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Current U.S. Class: **362/34** ; 250/462.1; 250/464.1; 250/504H; 250/504R; 252/700; 362/101; 362/104; 362/318; 362/84

US006106129A

United States Patent [19]

Cranor et al.

[11] Patent Number: 6,106,129

[45] Date of Patent: Aug. 22, 2000

[54] **CHEMILUMINESCENT DEVICE HAVING PARTICLES WITH SECONDARY FLUORESCER FOR ENHANCE ILLUMINATION**

[75] Inventors: **Earl Cranor**; **Fred Kaplan**, both of Longmeadow, Mass.

[73] Assignee: **Omniglow Corporation**, West Springfield, Mass.

[21] Appl. No.: **09/252,301**

[22] Filed: **Feb. 18, 1999**

[51] **Int. Cl.**[7] **F21K 2/00**

[52] **U.S. Cl.** ..... **362/34**; 362/84; 362/104; 362/101; 362/318; 252/700; 250/462.1; 250/464.1; 250/504 R; 250/504 H

[58] **Field of Search** ..... 362/34, 84, 101, 362/318, 104, 166, 171, 178; 252/700; 250/462.1, 464.1, 503.1, 504 R, 504 H

[56] **References Cited**

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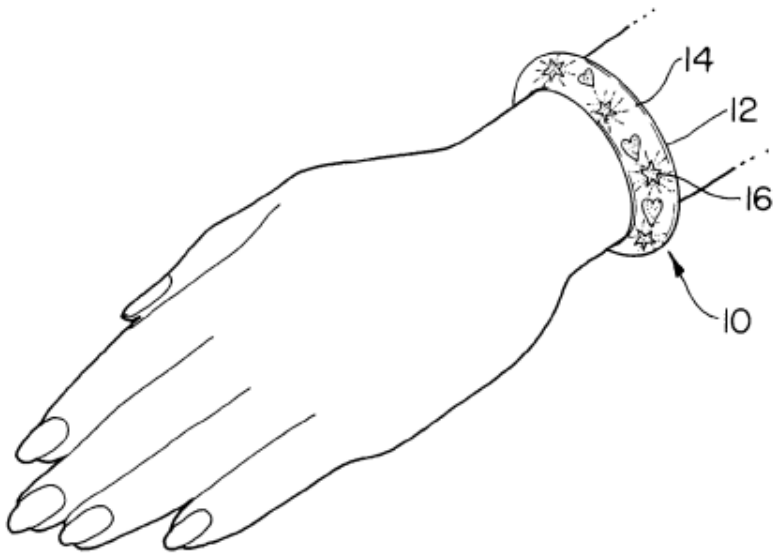
5,383,100	1/1995	Kikos	362/34

Primary Examiner—Sandra O'Shea
Assistant Examiner—Ismael Negron
Attorney, Agent, or Firm—McHale & Slavin

[57] **ABSTRACT**

A chemiluminescent illuminated novelty device employing a a light-filtering thermoformed vessel having a form for holding chemiluminescent reagents, e.g. a round shaped chemical holding section. The lighting effects generated by reaction of the chemiluminescent reagents are enhanced by the presence of particles containing a secondary fluorescer. In one embodiment, these particles may have a particular geometrical shape, e.g. a star or heart shape, and further contain a secondary fluorescer capable of being excited by the primary chemiluminescent light source so as to emit a secondary source of light which creates a glitter effect.

29 Claims, 1 Drawing Sheet



United States Patent **6,106,129**
Cranor , et al. **August 22, 2000**

Chemiluminescent device having particles with secondary fluorescer for enhance illumination

Abstract

A chemiluminescent illuminated novelty device employing a a light-filtering thermoformed vessel having a form for holding chemiluminescent reagents, e.g. a round shaped chemical holding section. The lighting effects generated by reaction of the chemiluminescent reagents are enhanced by the presence of particles containing a secondary fluorescer. In one embodiment, these particles may have a particular geometrical shape, e.g. a star or heart shape, and further contain a secondary fluorescer capable of being excited by the primary chemiluminescent light source so as to emit a secondary source of light which creates a glitter effect.

Inventors: **Cranor; Earl** (Longmeadow, MA); **Kaplan; Fred** (Longmeadow, MA)
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Current U.S. Class: **362/34** ; 250/462.1; 250/464.1; 250/504H; 250/504R; 252/700; 362/101; 362/104; 362/318; 362/84

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AN/omniglow: 20 patents.
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	PAT. NO.	Title
1	6,832,392	Chemiluminescently illuminated costume safety mask
2	6,758,572	Chemiluminescent lighting element
3	6,569,786	Layered reflecting and photoluminous fire resistant material
4	6,461,543	Chemiluminescent solution based on disubstituted perylene tetracarboxylic acids, their dianhydrides and diimides
5	6,267,914	Variable chemiluminescent process and product
6	6,159,878	Layered reflecting and photoluminous fire resistant material
7	6,126,871	High output chemiluminescent light formulations
8	6,106,129	Chemiluminescent device having particles with secondary fluorescer for enhance illumination
9	6,065,847	Chemiluminescent packaging
10	5,980,055	Chemiluminescent devices having integral light shields
11	5,931,383	Self-illuminated drinking straw
12	5,566,679	Methods for managing the Reproductive status of an animal using color heat mount detectors
13	5,552,968	Chemiluminescent lighting element
14	5,488,544	Chemiluminescent lighting element
15	RE35,132	Solid, thin chemiluminescent device
16	5,446,629	Emergency light fixture
17	RE35,007	Preparation of chemiluminescent vinyl halide or vinylidene halide polymer structures
18	5,348,690	Preparation of chemiluminescent vinyl halide or vinylidene halide polymer structures
19	D336,031	Hook for a light stick
20	5,043,851	Polygonal chemiluminescent lighting device

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	PAT. NO.	Title
1	7,052,631	Degradable chemiluminescent process and product
2	7,044,614	Functional application of photochromic compound materials to products
3	7,033,055	Emergency light system
4	7,029,137	Cable having an illuminating tracer element mounted thereon
5	7,021,782	Illuminated safety apparatus and base
6	7,021,781	Method and packaged product, particularly chemiluminescent vessel, enabling contents to be distinguished
7	7,017,736	Chemiluminescent vessel
8	6,990,905	Marker projectile
9	6,984,052	Drip chamber illumination device

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