

# Creating and Analyzing a Patent Landscape with SocialCitNet

*A Case Study*

# Starting with a relevant patent in the technology area of interest - EP2162488A2/ WO 2009057134A2

## ACRYLIC FIBER WITH MODIFIED PROPERTY AND A PROCESS FOR MAKING THEREFOR

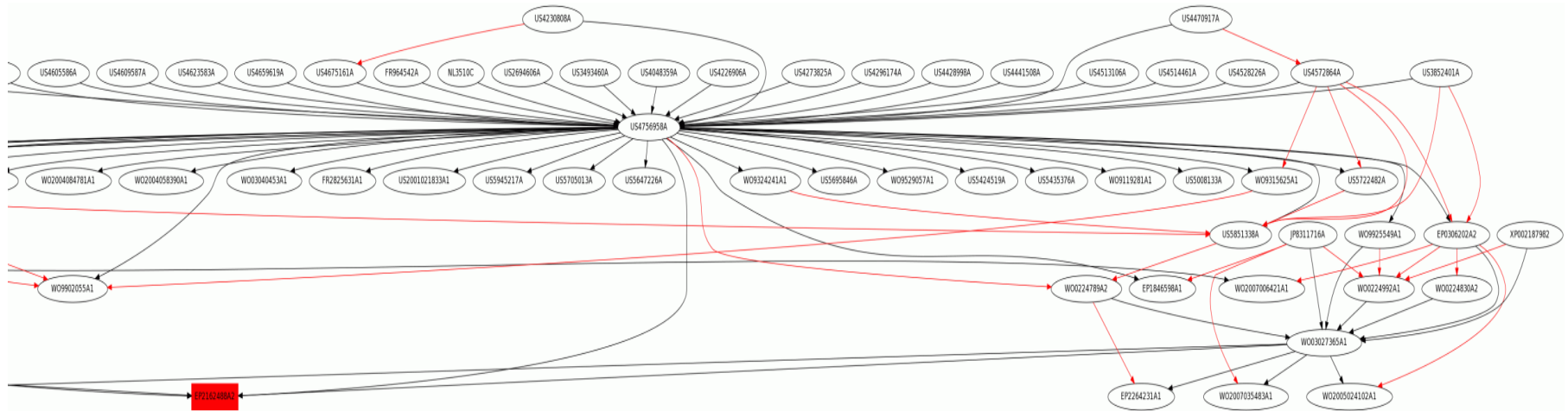
- *A viscose fiber having property modifying constituents such as thermoregulatory activity, antimicrobial activity, and perfumed and a method of making thereof is disclosed. **Micro-reservoirs** are formed in the fibers having thermoregulatory activity, antimicrobial constituents, and perfumed constituents.*  
**WO2009057134 (A2)**

Also published as

WO2009057134 (A3)  
US2010196692 (A1)  
US2010190400 (A1)  
US2010204289 (A1)  
KR20100039373 (A)  
KR20100025015 (A)  
KR20100021517 (A)  
JP2010532434 (T)  
JP2010532405 (T)  
JP2010532433 (T)  
WO2009063479 (A2)  
WO2009063479 (A3)  
WO2009057135 (A2)  
WO2009057135 (A3)  
EP2162575 (A2)  
EP2162574 (A2)

# Portion of the Depth 2 citation network of EP2162488A2 (created with SocialCitnet)

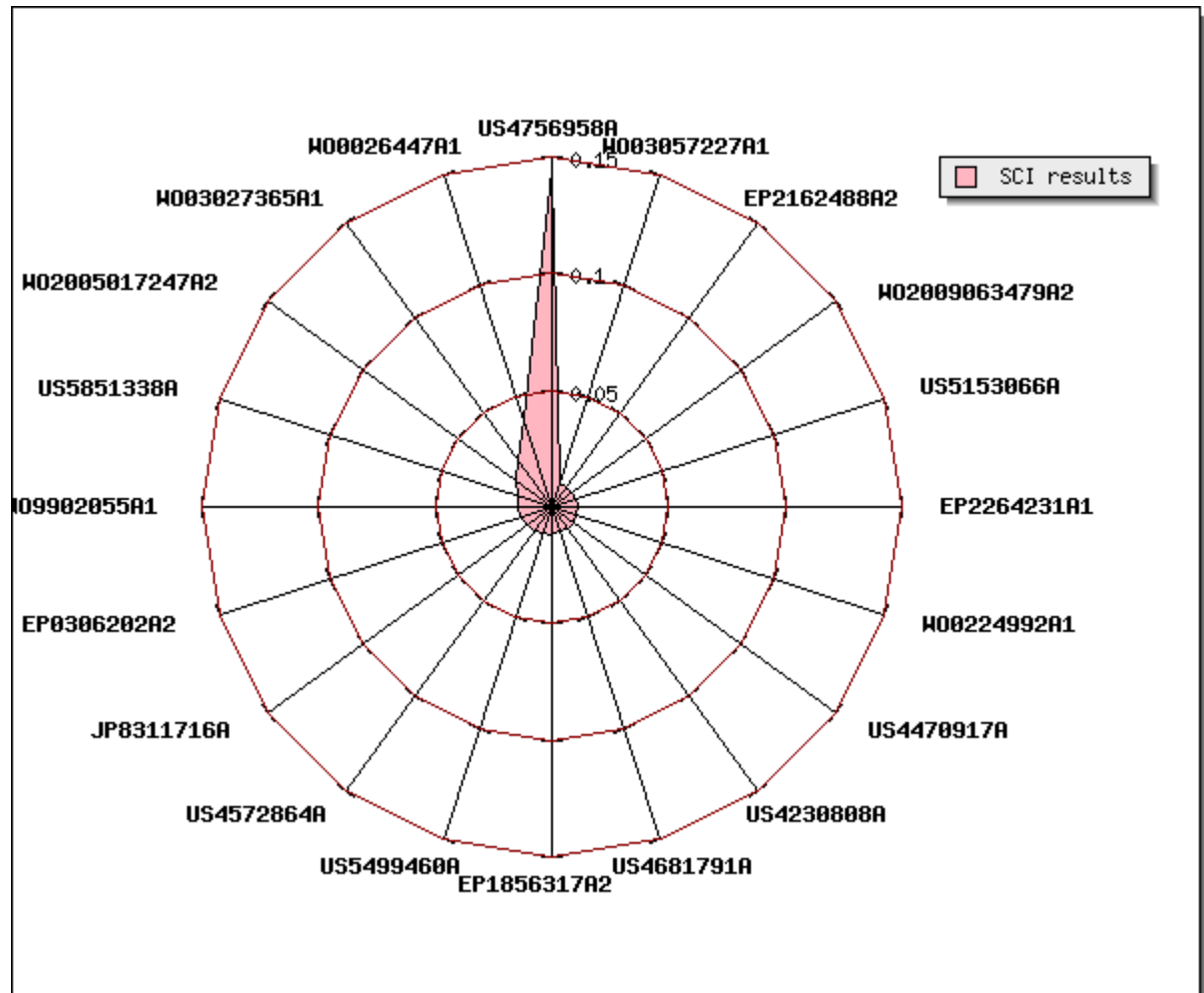
**No. of Nodes: 89**  
**No. Of Connections: 119**  
**Sparsity of Graph: 0.0263**



*Which patents are the most important in this network?*

# Top patents in the network based on Social Citation Index (SCI)

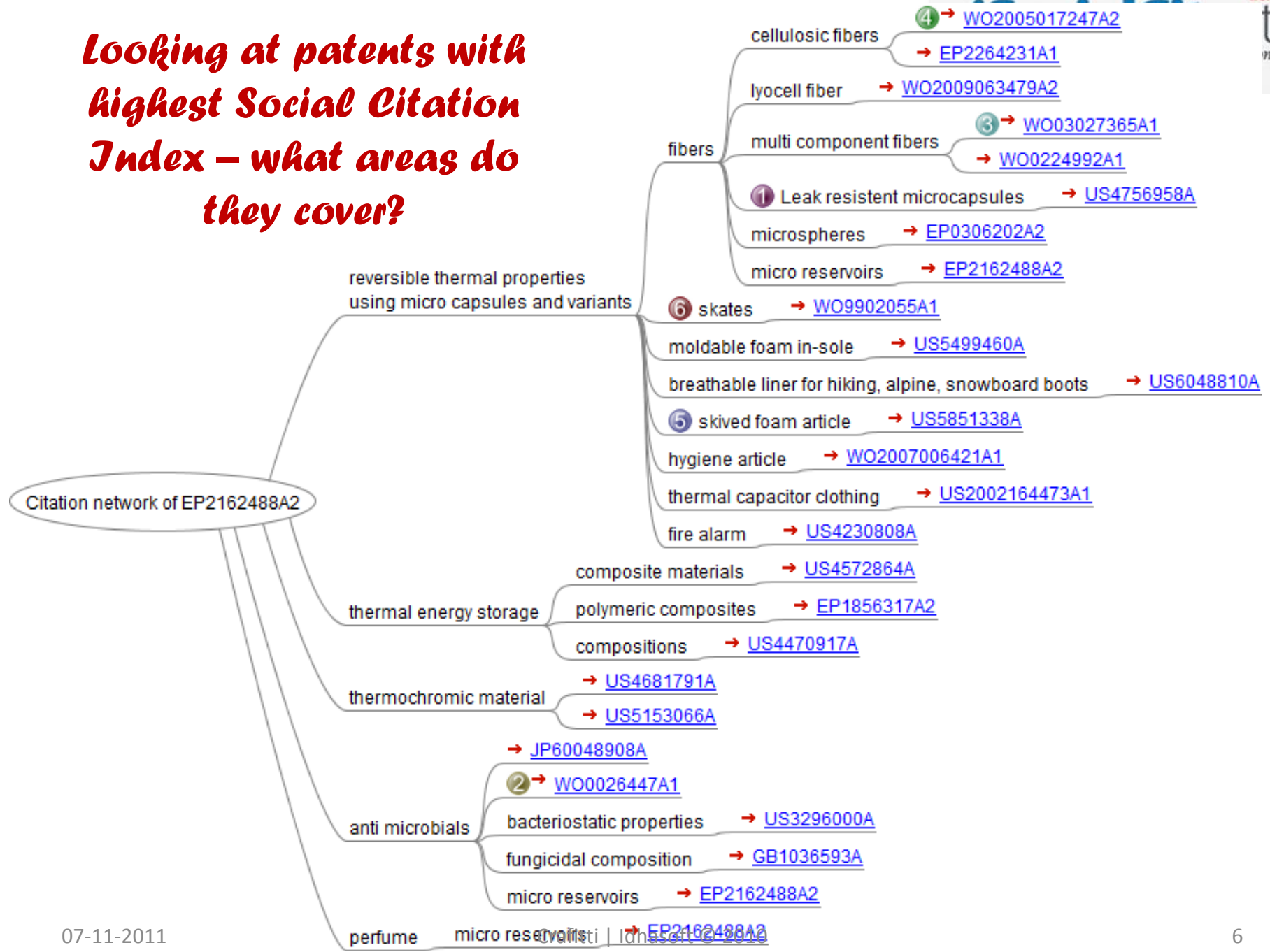
Patent	SCI
<a href="#">US4756958A</a>	0.1447
<a href="#">WO0026447A1</a>	0.0401
<a href="#">WO03027365A1</a>	0.0242
<a href="#">WO2005017247A2</a>	0.0191
<a href="#">US5851338A</a>	0.0154
<a href="#">WO9902055A1</a>	0.0143
<a href="#">EP0306202A2</a>	0.014
<a href="#">JP8311716A</a>	0.013
<a href="#">US4572864A</a>	0.0125
<a href="#">US5499460A</a>	0.0121
<a href="#">EP1856317A2</a>	0.0118
<a href="#">US4681791A</a>	0.0112
<a href="#">US4470917A</a>	0.0112
<a href="#">US4230808A</a>	0.0112
<a href="#">WO0224992A1</a>	0.0111
<a href="#">US5153066A</a>	0.0109
<a href="#">EP2264231A1</a>	0.0109
<a href="#">WO2009063479A2</a>	0.0107



# US Patent 4756958

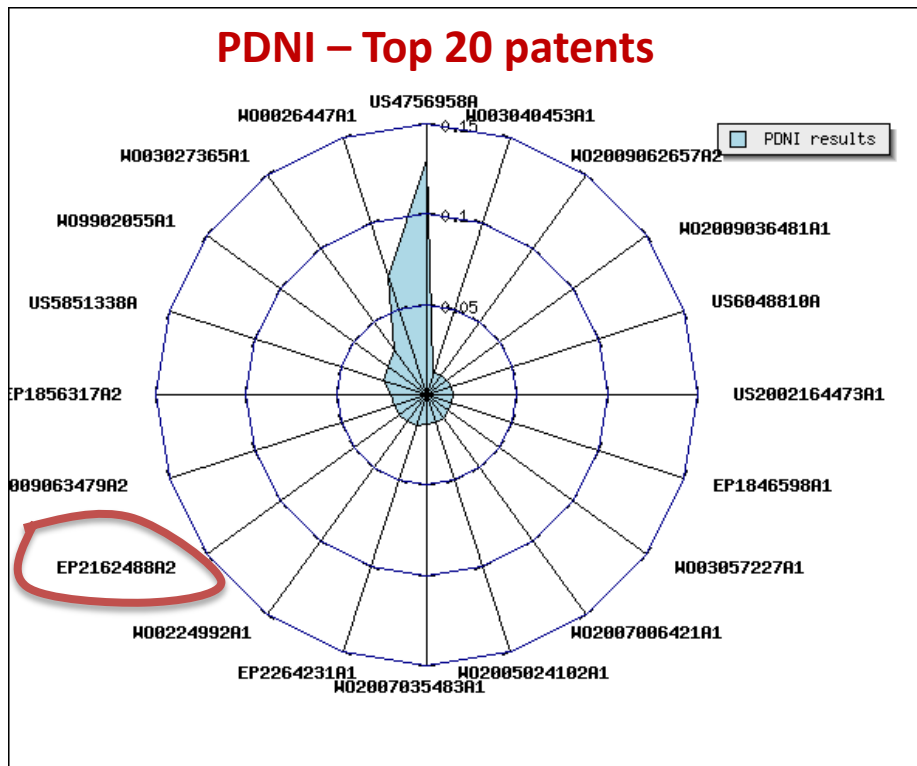
- Published in 1988, this invention relates generally to the field of synthetic fibers impregnated with microcapsules and more particularly to fibers containing leak resistant microcapsules which are filled with energy absorbing phase change material or a plastic crystal material which enables articles of manufacture made therefrom to exhibit extended or enhanced heat retention or storage properties.
- **This patent has the highest PDNI and NDPI in the citation network**
- *Clearly, this is one of the leading inventions to revolutionize the concept of microcapsules filled with phase change material.*
- *It has built on other inventions in the network (high PDNI), at the same time, over the years, many other patents have built further on this patent as well (high NDPI).*

# Looking at patents with highest Social Citation Index – what areas do they cover?



# EP2162488A2 – (a patent with high PDNI)

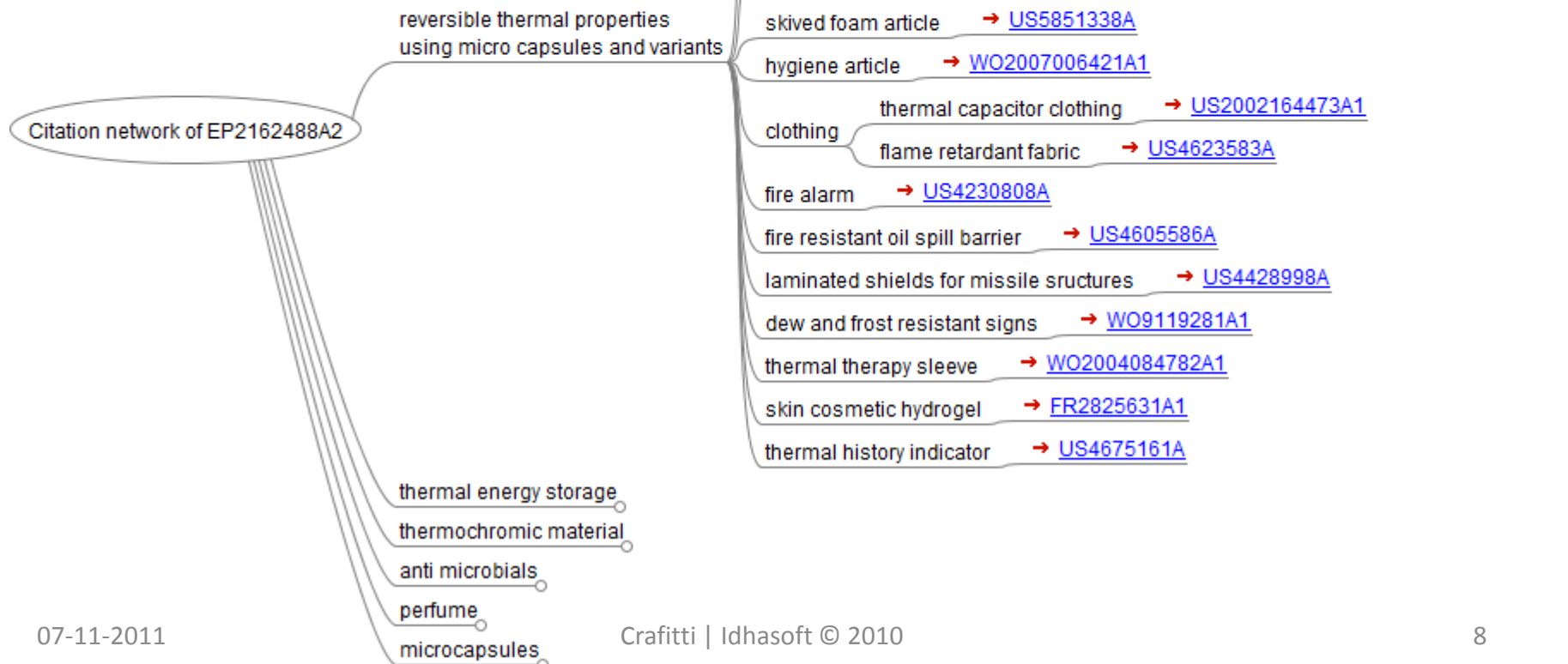
Abstract: A viscose fiber having property modifying constituents such as thermoregulatory activity, antimicrobial activity, and perfumed and a method of making thereof is disclosed. Micro-reservoirs are formed in the fibers having thermoregulatory activity, antimicrobial constituents, and perfumed constituents.



It has a relatively high PDNI value (it depends on many other patents) but low NDPI (not many patents depend on it)

It *integrates* multiple functions (each function separately dealt with in other patents) - thermoregulation, antimicrobial properties, perfume etc.

*Interesting to note that the overall citation network encompasses applications ranging from clothing and footwear to missile shields, oil spill barriers and skin cosmetics!*





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