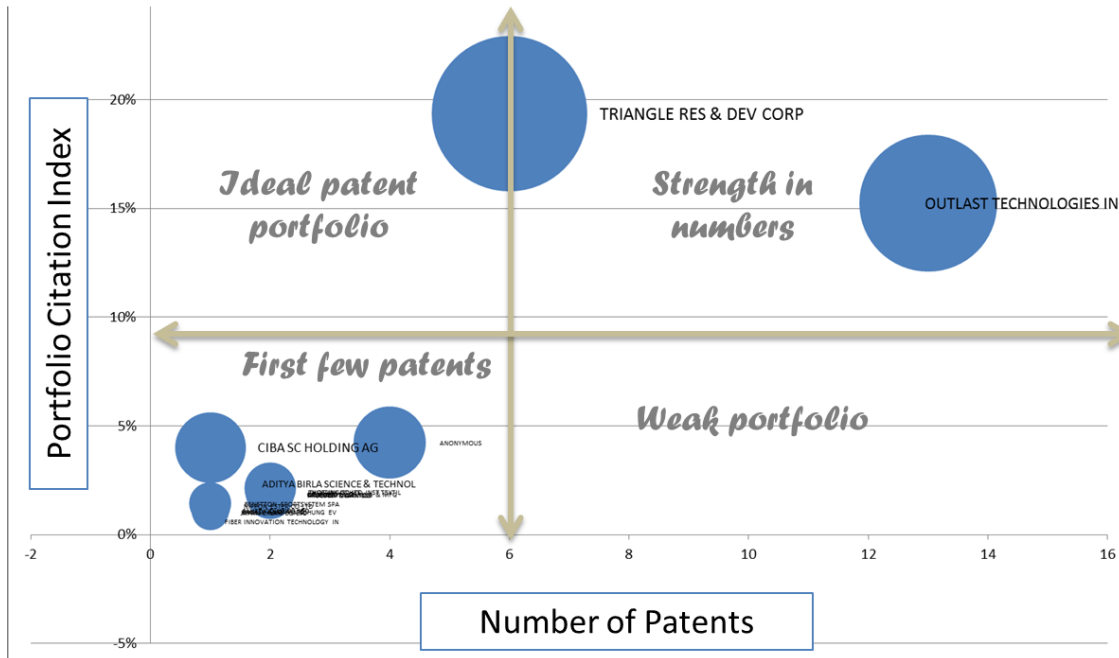


# Patent Portfolio Strength Analysis with SocialCitNet

*A Case Study*



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

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

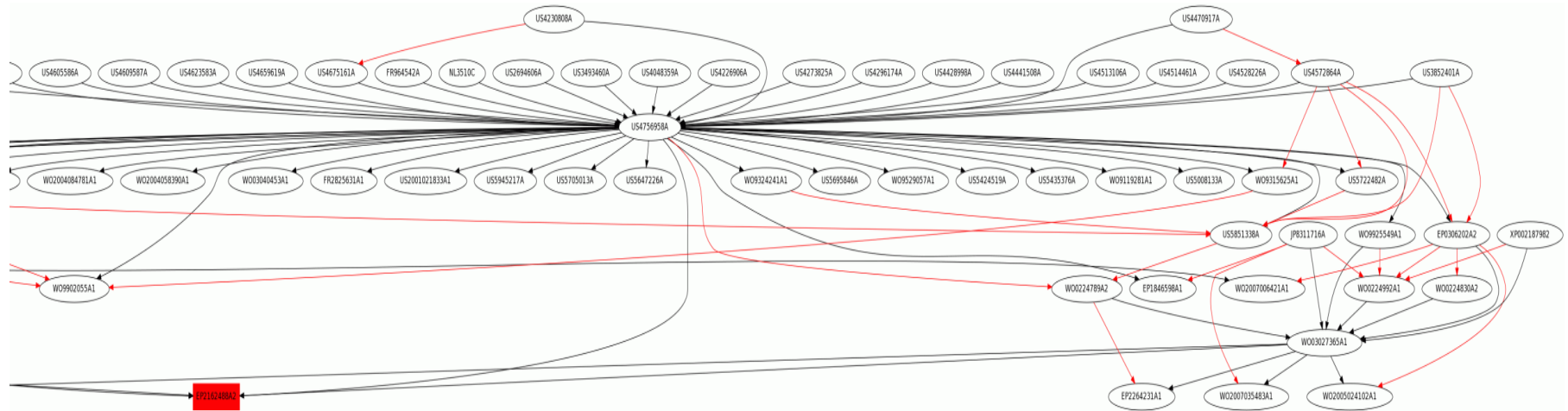
- *A viscose fiber having property modifying constituents such as thermoregulatory activity, antimicrobial activity, and perfumed and a method of making thereof is disclosed. **Micro-reservoirs** are formed in the fibers having thermoregulatory activity, antimicrobial constituents, and perfumed constituents.*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

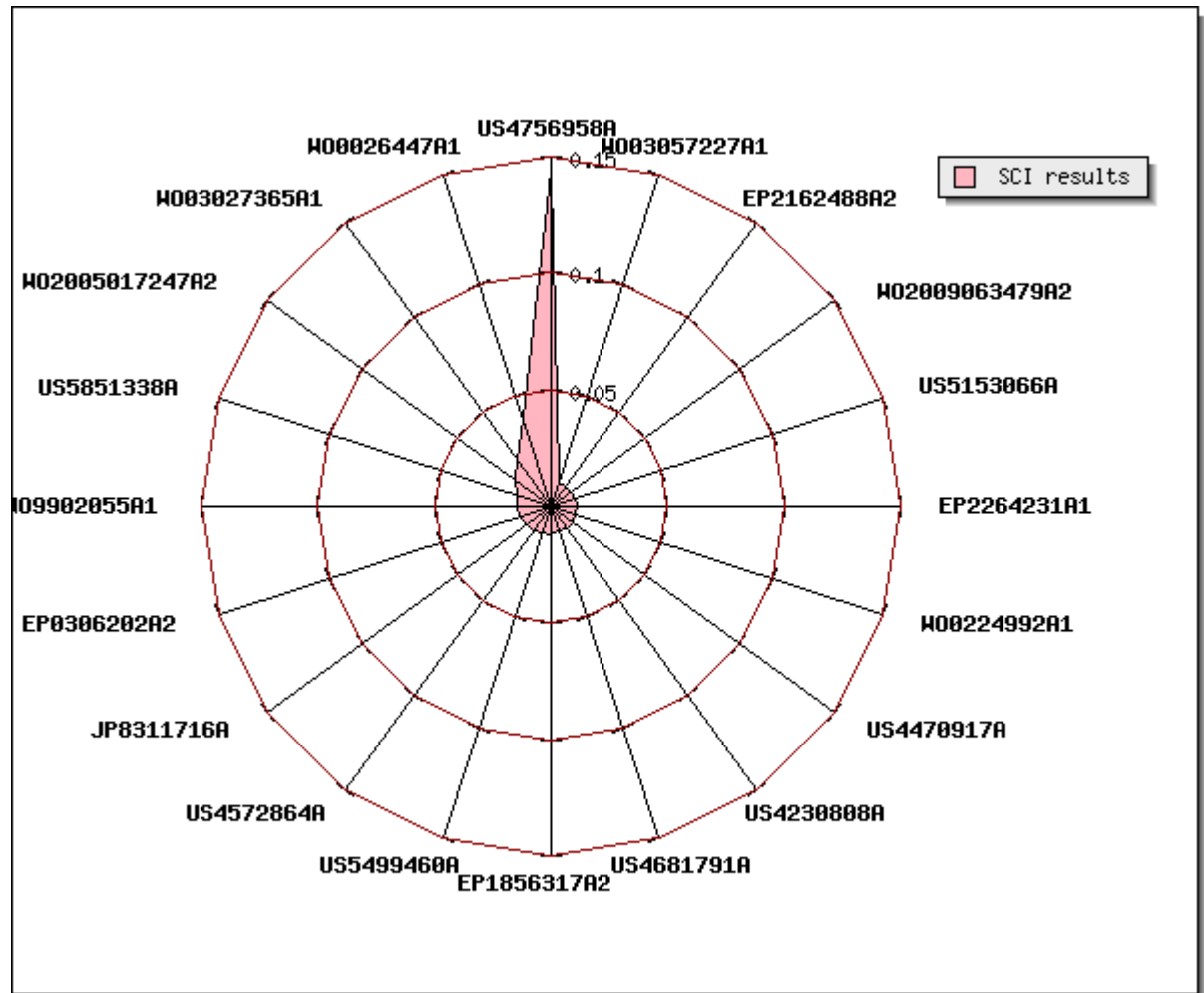
**No. of Nodes: 89**  
**No. Of Connections: 119**  
**Sparsity of Graph: 0.0263**



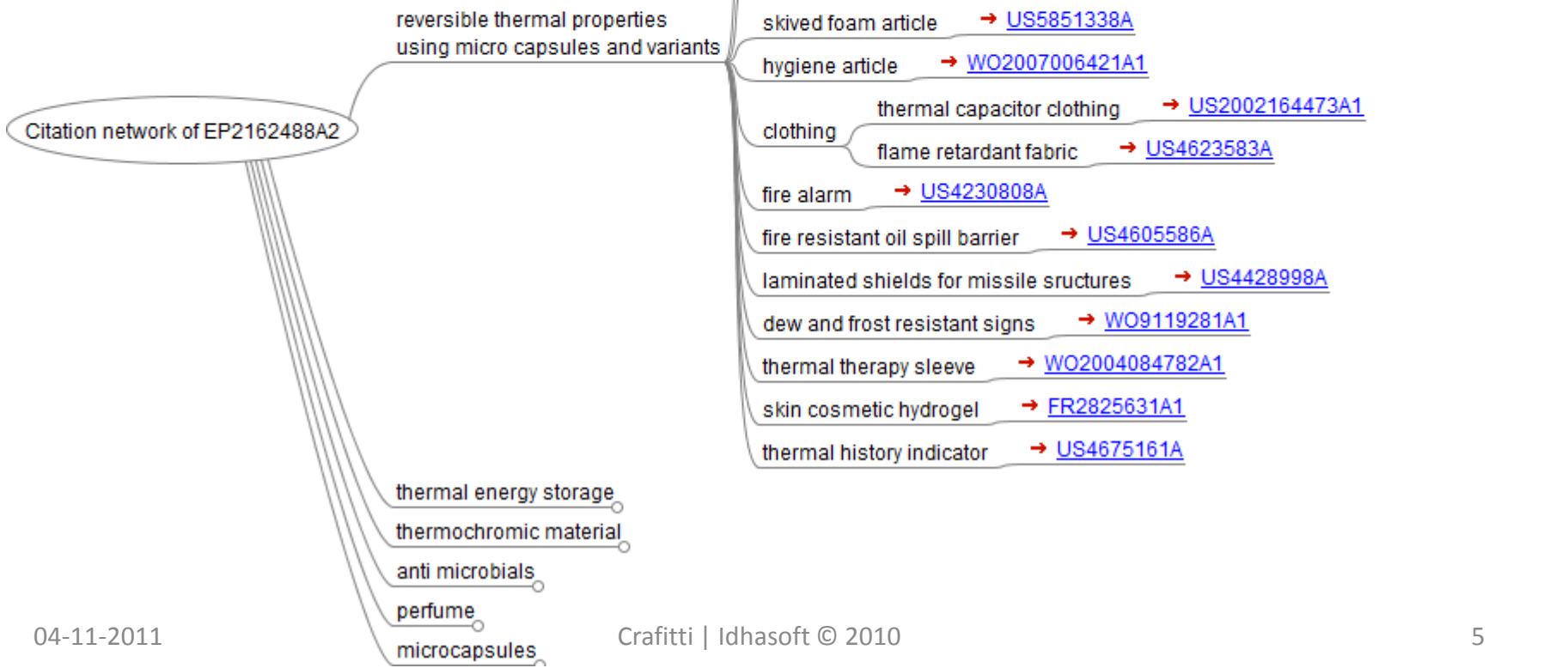
*Which patents are most important in this network?*

# 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

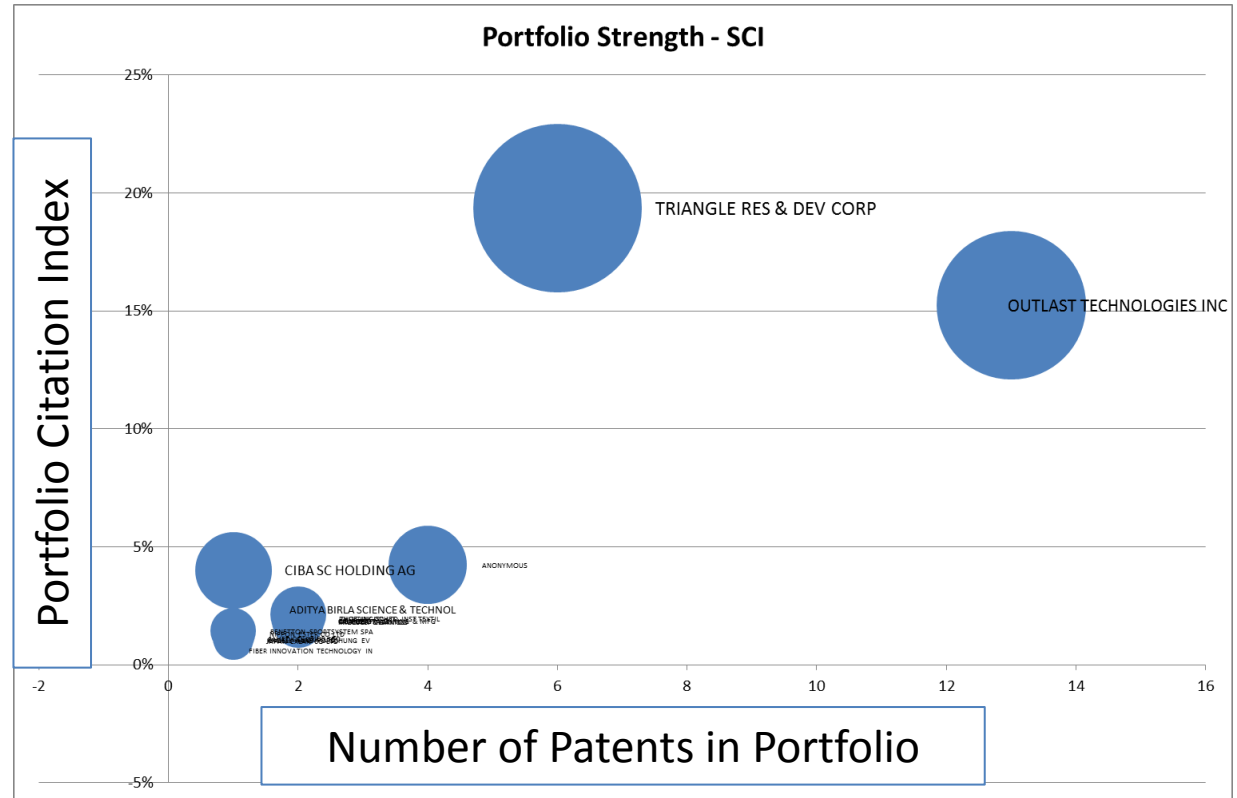


*Interesting to note that the overall citation network encompasses applications ranging from clothing and footwear to missile shields, oil spill barriers and skin cosmetics!*



# Whose Patent Portfolio is **Stronger**?

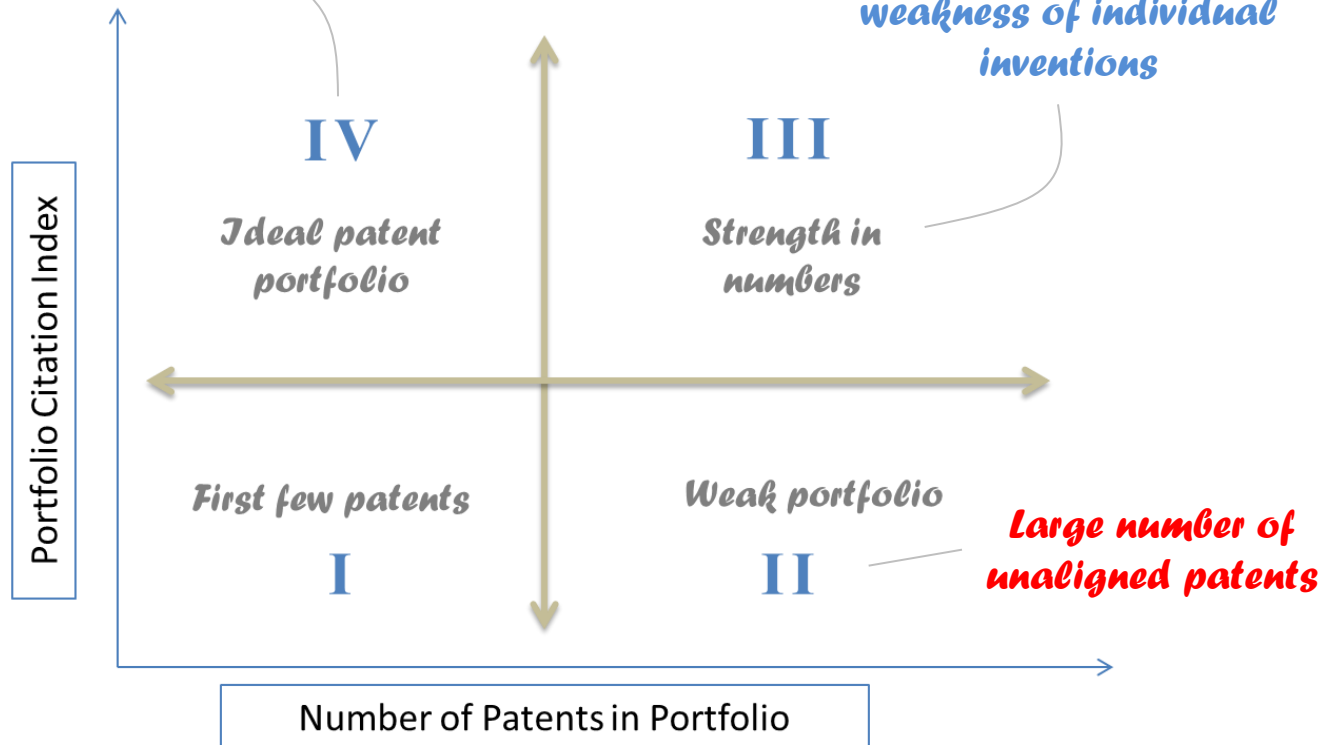
**Patent portfolio view**  
 –  
**In this view, we combine the citation indices of all patents owned by an assignee (company)**



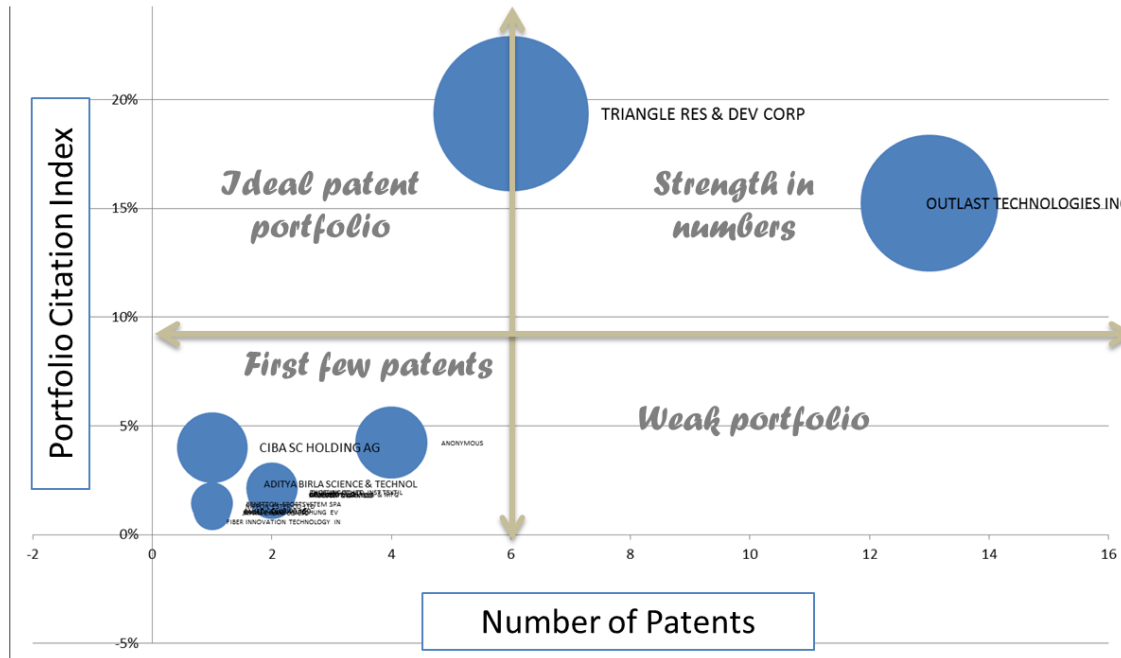
# Patent Portfolio Strategy with Portfolio Citation Index

*Highly effective portfolio of strong inventions*

*Large number of patents align to make up for weakness of individual inventions*



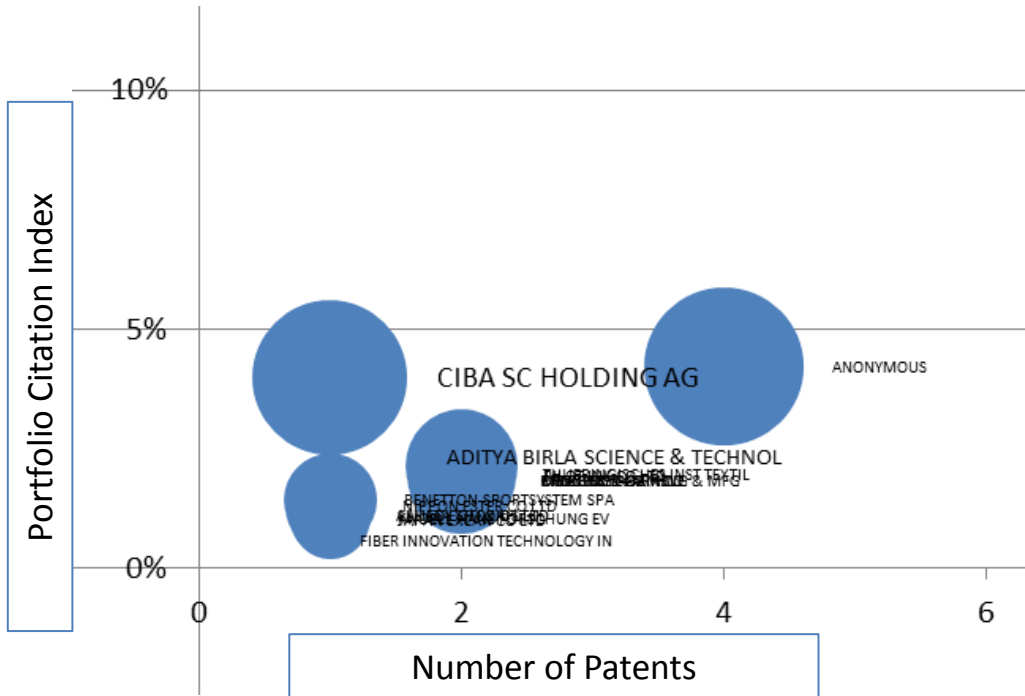
# Whose Patent Portfolio is **Stronger**?



- Clearly, there are two standout players in this patent landscape –
  - Triangle Res & Dev Corp
  - Outlast Technologies Inc.
- Out of the two, Triangle Res & Dev Corp, is closer to Quadrant 4 (ideal patent portfolio) as compared to Outlast Technologies Inc. and therefore, has a stronger patent portfolio.

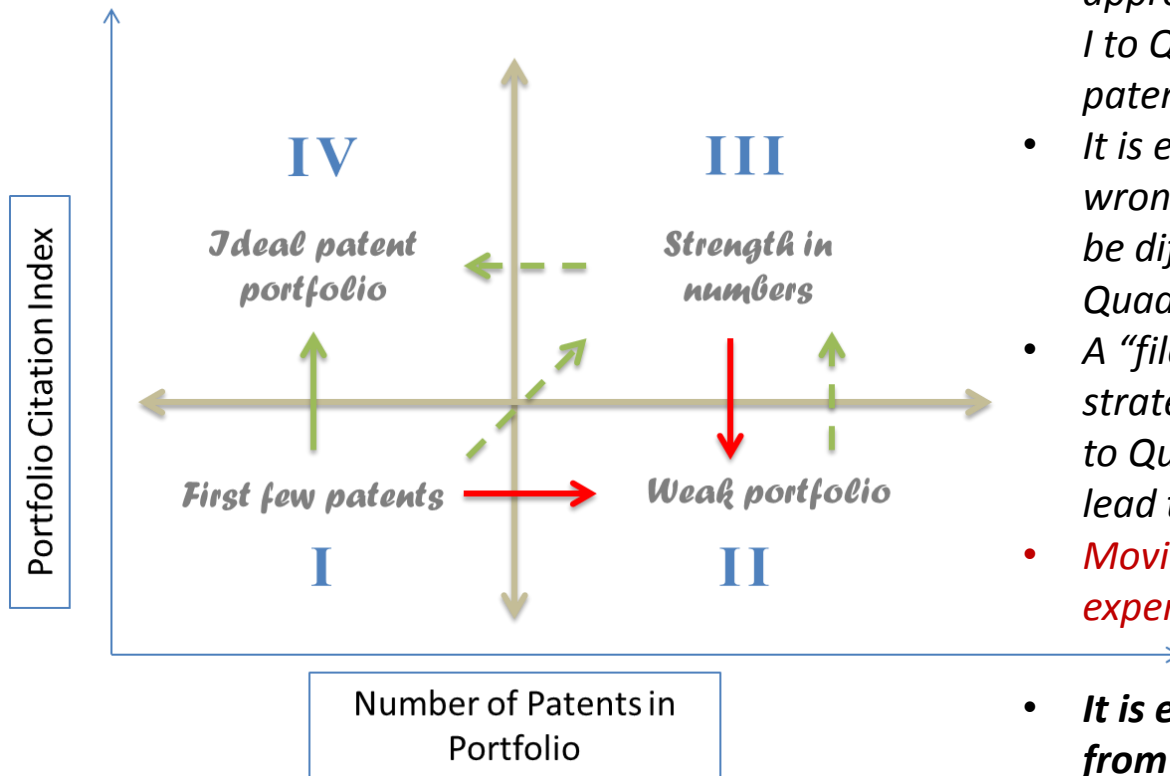


# Zooming in



- Most players in the portfolio were bunched together in Quadrant 1
- As we zoom in, we can easily identify that Ciba SC Holdings and Aditya Birla Science and Technology are starting to lead the rest of the pack.

# Patent Portfolio Strategy with Portfolio Citation Index



- Most companies follow a linear approach (aim to move from Quadrant I to Quadrant III) to expand their patent portfolio
- It is easy for a linear approach to go wrong (end up in Quadrant II). It can be difficult to move out of the Quadrant II rut.
- A “file first, assess value later” strategy is optimistically likely to lead to Quadrant III and extremely likely to lead to Quadrant II.
- *Moving from II to III to IV is a long expensive journey.*
- **It is easier and cost effective to move from Quadrant I to Quadrant IV, using structured frameworks like TRIZ to build strong inventions and a strong patent portfolio.**

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