Patent Value Benchmarking

Statistical Value Perspectives from an Intellectual Capital Merchant Bank

IC5 Conference Paris, May 28-29, 2009 Intellectual Capital for Communities in the Knowledge Economy

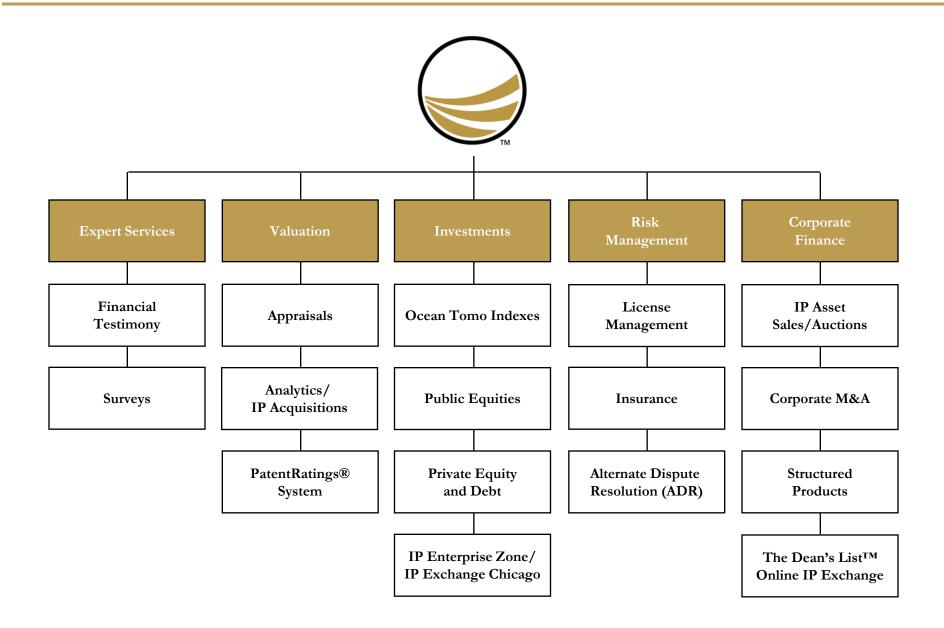
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Ocean Tomo Overview





Ocean Tomo Auctions

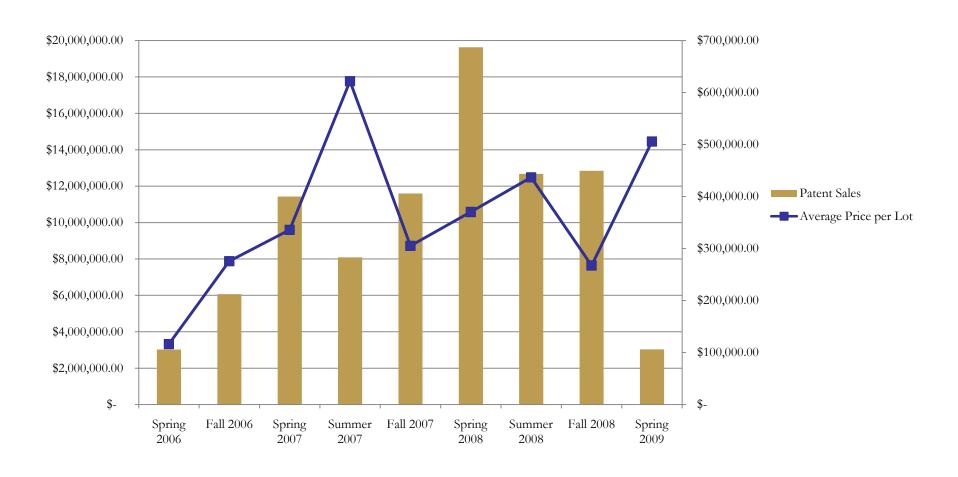


\$100+ million in auction volume



Auction Results - Patents

Ocean Tomo Auction Results





Finding Valuable Patents

NOT ALL PATENTS ARE CREATED EQUAL!!







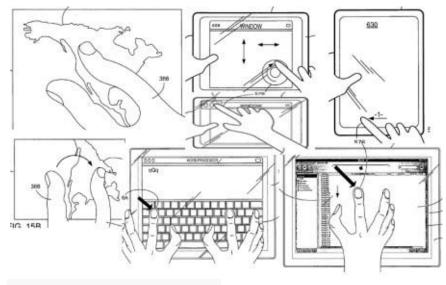
Finding Valuable Patents

Value Factors:

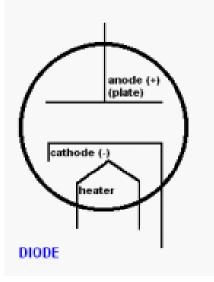
- Merits of the Underlying
 Invention
- Commercial Value of the Invention
- Quality of Patent Coverage



Inventive Merit



"Multi-Touch Gesturing"





"Blue LED Diode"



Commercial Applications



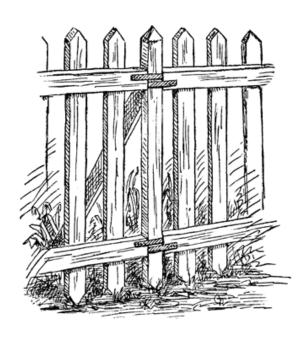
Multi-Touch Gesturing e.g., Apple "I-Phone"



Blue LED Diode
e.g., Large LED Displays



Patent Quality



VS.



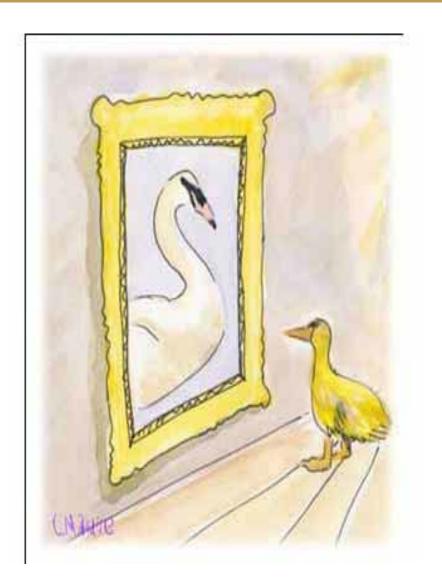
"Picket Fence"

"Steel Vault"



What is Patent Quality?

- Define Quality
 - Quality Is NotSo NeatlyDefined
 - Like Beauty,
 Quality is Often
 in the Eye of the
 Beholder





Finding Valuable Patents

Value Factors:

- Merits of the Underlying Invention
- Commercial Value of the Invention
- Quality of Patent Coverage

But:

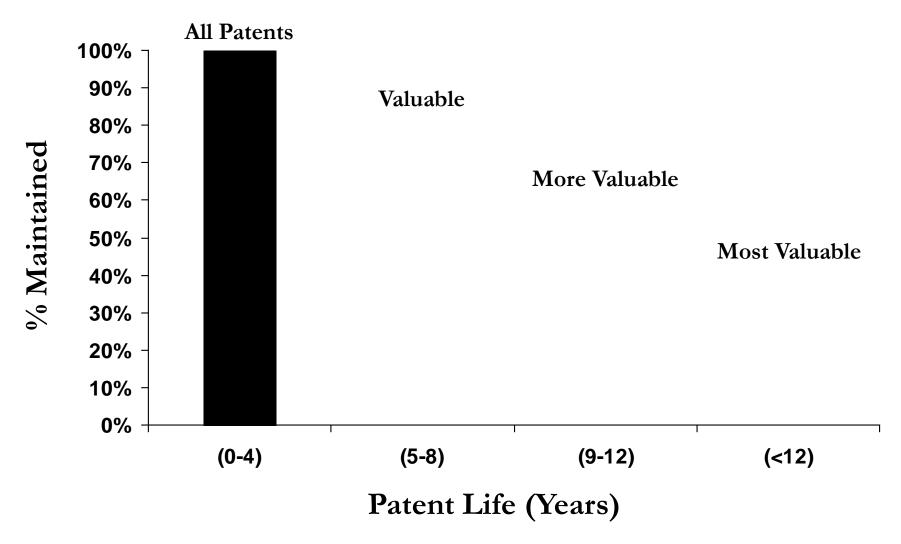
How Does One "Measure" Such Things?

Who Has The Best Knowledge?

How is That Knowledge Expressed?

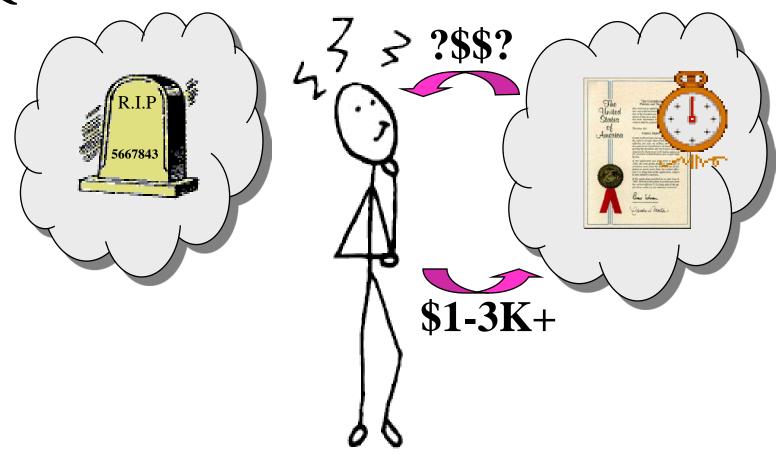


Average Patent Life





"To Pay or Not to Pay?, ... That is the Question."



OBSERVATION:

Patents that are more valuable are, on average, maintained more often than patents that are less valuable.

PREMISE:

By examining PTO maintenance records, we can identify certain patent "metrics" or characteristics that are statistically correlated to higher maintenance rates (higher probable value).



ASSUMPTION #1:

Individual patent decision-makers will (on average) choose to pay maintenance fees only when the perceived value of the expected remaining economic benefit secured by the patent exceeds the amount of the maintenance fee, taking into account appropriate risk factors, anticipated rates of return, carrying costs, etc.

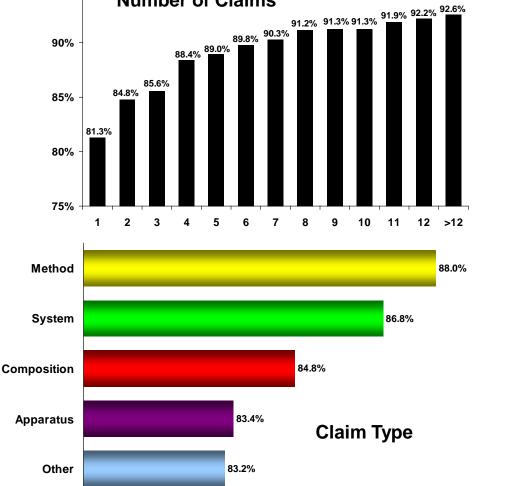
ASSUMPTION #2:

Patent values are lognormally distributed.

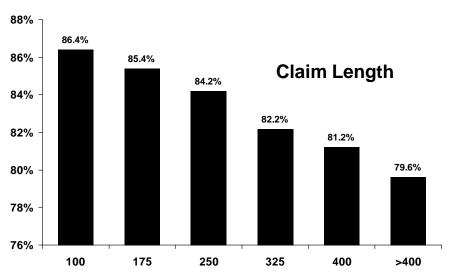


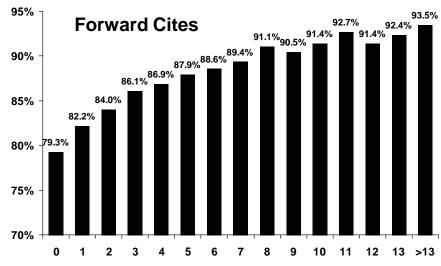
Sample Metrics:

Number of Claims

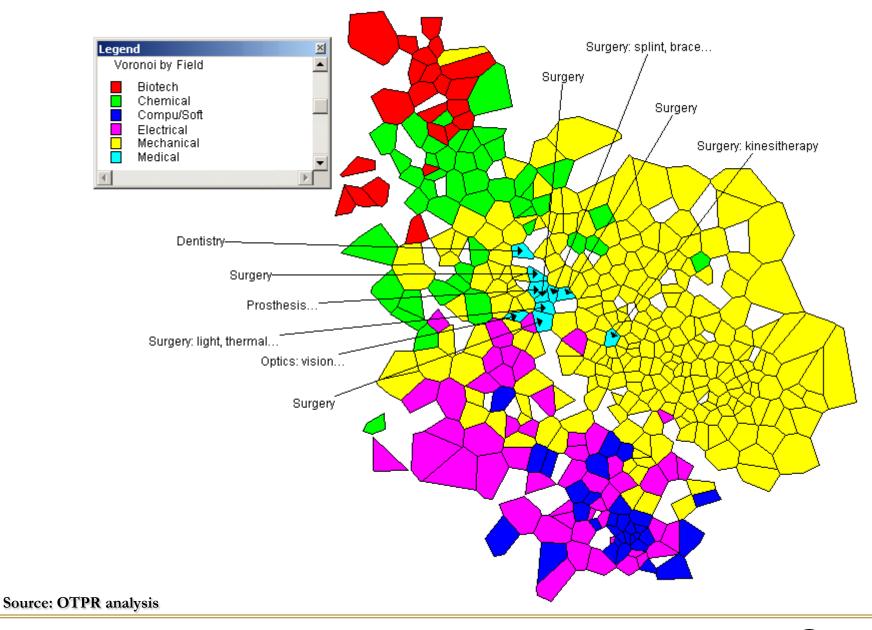


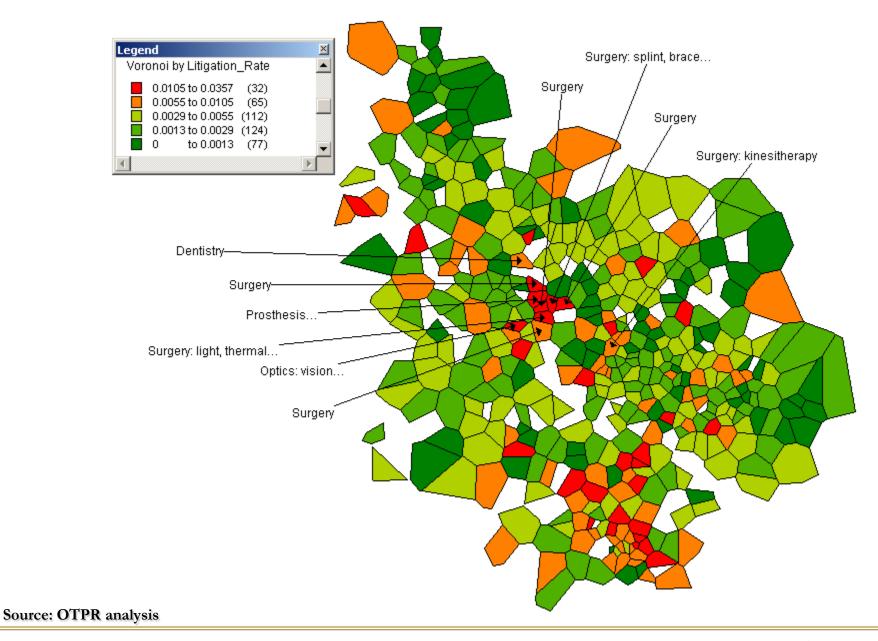
83.0% 84.0% 85.0% 86.0% 87.0% 88.0% 89.0%

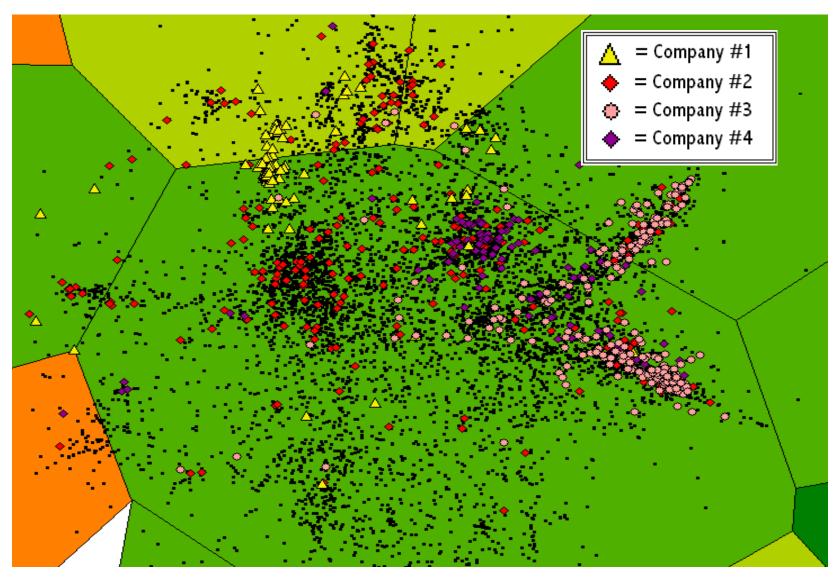






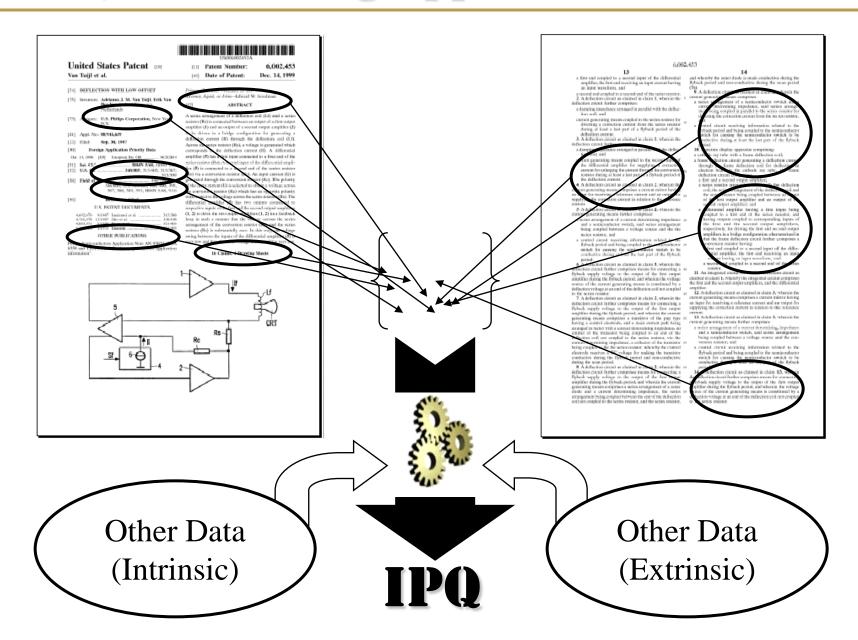






Source: OTPR analysis







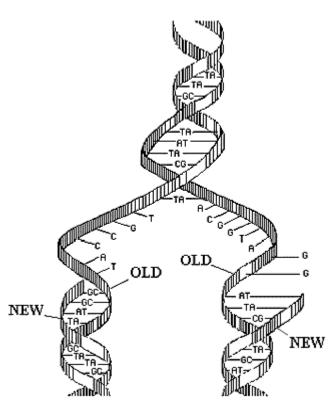
Pet display clothing



Forehead support apparatus



PROCESS FOR AMPLIFYING NUCLEIC ACID SEQUENCES



IPQ: 67.3

Grade: C-

IPQ: 72.2

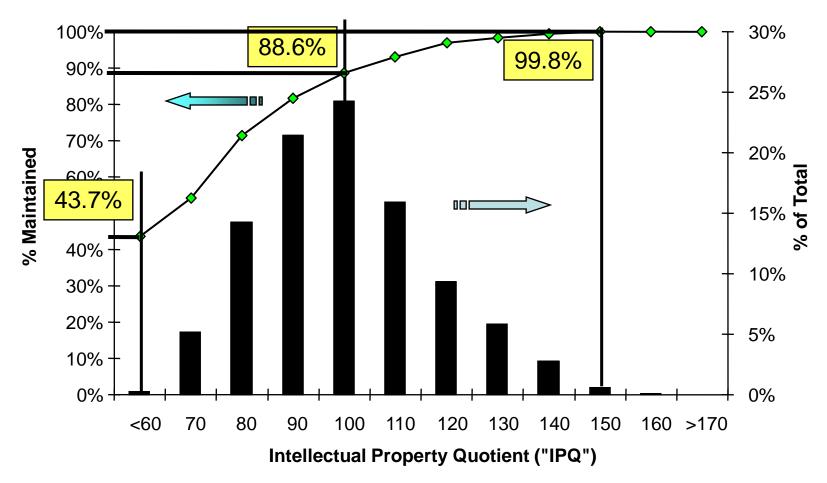
Grade: C

IPQ: 224.9

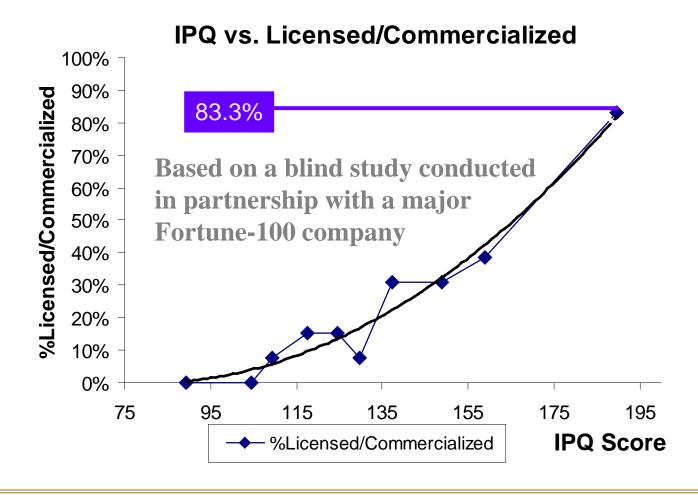
Grade: A+



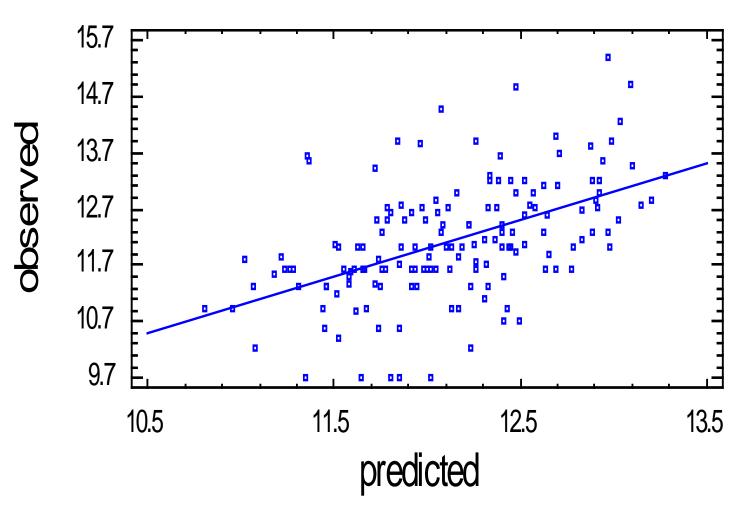
 Higher IPQ Score correlates to a higher probability of patent maintenance (longer life expectancy)



 Higher IPQ Score correlates to a higher probability of commercialization









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