

University of Zurich

Faculty of Law Fall Semester 2012

Law & Economics Economic Analysis of Law

Intellectual Property Law

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Approach – Content

- Definition and problems with intellectual property
- Design principles
 - Scope of protection
 - Duration of protection
- Special intellectual property rights
 - Copyright protection
 - Trademark protection

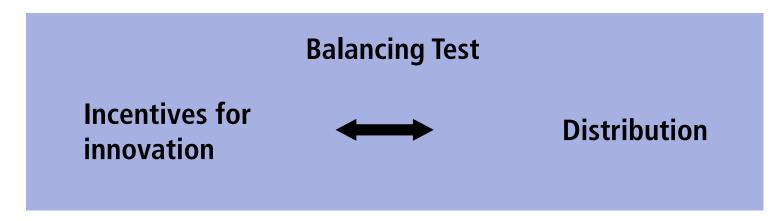
Intellectual Property Rights v. Property Rights

Property right

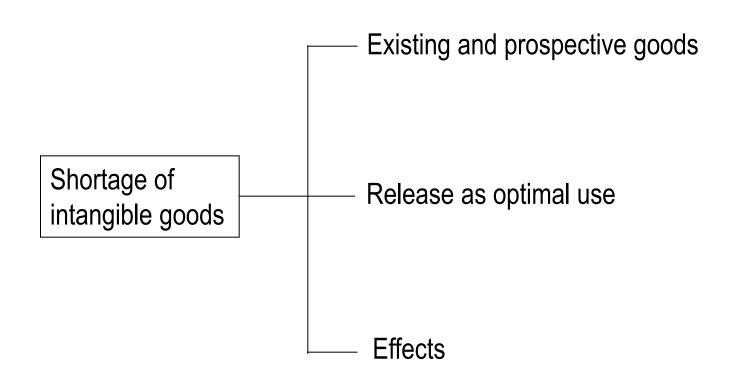
- Allows the owner to claim to the "social value" of a property
- Gives him incentives to create values
- Allows the exclusion of others

Intellectual property rights

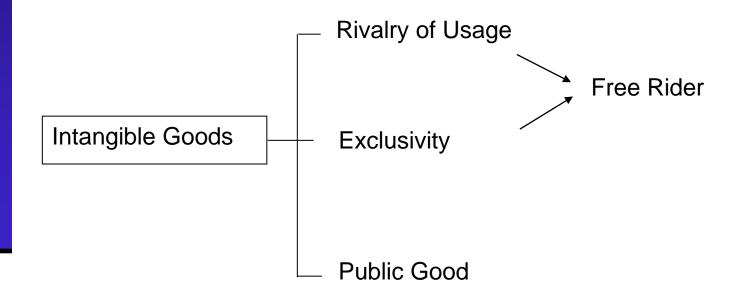
Protection is limited to a period of time



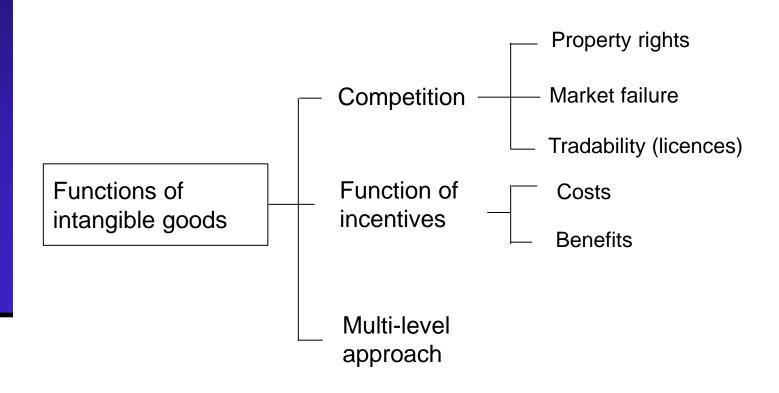
Intellectual Property Rights v. Property Rights Problem of Shortages



Intellectual Property Rights v. Property Rights Free Rider Problem



Functions of Intangible Goods



Intellectual Property Rights v. Property Rights Monopoly Power

Monopoly situation for a specific good

- Right protects from competition
- Prices not at marginal costs
- Amount of output too small

Consequences for intangible goods

- Too few medicaments ...
- Too few books…
- Too few stage plays...
- ...but otherwise there could be none or some of worse quality?!

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Scope of Protection (1)

Broader protection

- Only one patent for "similar" inventions
- "Winner takes all"
- Effects: fast, research in various fields

Narrow protection

- Different patents for "similar" inventions
- "Little for everyone"
- Effect: slower, complementary research

Scope of Protection (2)

Typical for research and development

- First inventions (basic research) without or with small market value
- Additional inventions, applications have market value

Example

- Basic research costs 100'000 €
- Result without direct market value
- Additional inventions needed to develop an application
- The resulting application has a market value of 1 Mio. €
- Result with broader or narrower protection?

Scope of Protection (3)

"Doctrine of Equivalents"

Similarity of inventions decide on protection regime

Welfare maximisation ?

- Basic research v. applications
- Often diversity of interpretations
- Consequence: Basic research is protected separately from applications
- Problem: insufficient basic research

Solution approaches

- Modification in doctrine: on the way to economic concepts
- Reward-System
- Basic research as public good?

Duration of Protection

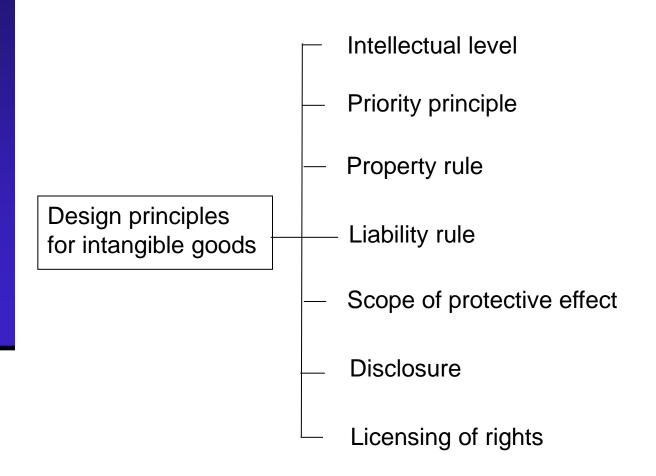
Economic theory

- Marginal benefit innovation v. marginal costs due to lack of distribution
- Optimal: flexible term of protection for each innovation

Practicable solutions?

- Patent protection USA: 20 years, relatively strictly
- Germany/CH: more complex system
 - Gradually granted patent protection
 - Annual patent fee
 - Consequence: Hardly any patent is valid for full period

Other Design Principles



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Copyright Protection

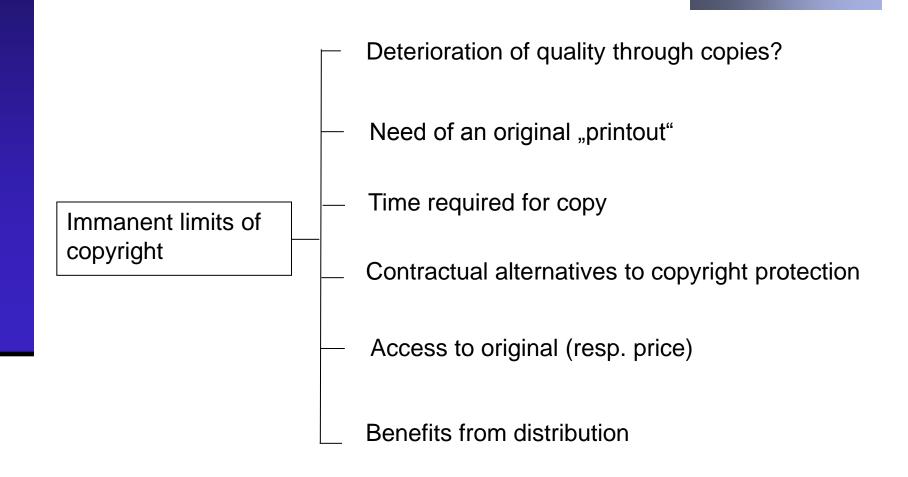
Features and problems

- Longer period of protection than patents
- "Weaker protection"
 - Transaction costs => "Fair use"
- Registration not necessary
 - Tracing Costs: Did anybody already create the same?

Future prospects

- "Celestial Jukebox"
 - Big provider paid royalties
- "Digital Libertariansim"
 - Encryption allows individual use

Copyright and its limits



Trademark Protection

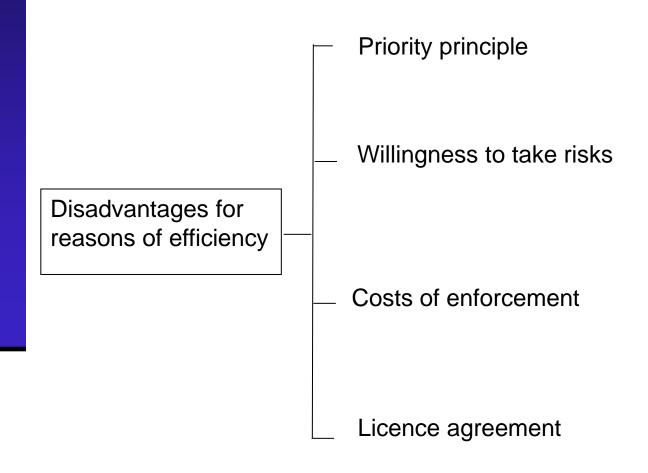
Reasons for protection?

- Decreased costs for searching through signalling effect
 - Quality (evidence: Soviet era, e.g. car(s))
 - Reputation, status
- Trademark as credible obligation
 - Trust
 - Warranty

Differences to copyright and patent rights

- No monopoly status
- "Infinite" term of protection
- Problem of Standardisation
 - "Post-it", "Aspirin", "Cola", "Google" etc.

Efficiency – Problems



Regulatory Solutions

