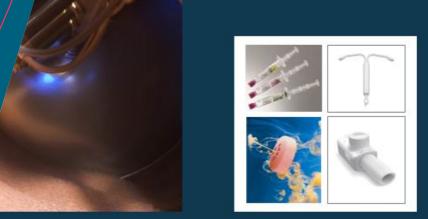


Business Finland Health Tuesday

IPR from a Viewpoint of Pharmaceutical Industry

6.10.2020 / Pirjo Kortesuo







Agenda

Bayer Oy R&D and Supply Center Turku

Where Do Product Ideas Come From?

Why does the pharmaceutical industry need patents?

Patents and Product Development Phases

About Bayer Oy Patent Portfolio

Some topics that have been valuable in our patent work



Bayer – Key data in 2019







Investment in R&D

€ **5.3** bn

12% (high!)



Countries

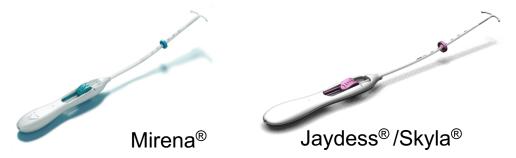
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Bayer Oy R&D and Supply Center Turku

Top production and R&D plant

- # 73 years of tradition in manufacturing pharmaceuticals
- // The biggest Bayer Pharma factory outside of Germany
- // The Turku site is global technology leader in polymer-based drug delivery technology (PBDS); the only Bayer site that develops and manufactures PBDS-products











Where do new innovations come from?



				Hawa Kanta bu-506
Strategic lever	R&D	OPEN INNOVATION	EMPLOYEE INNOVATION	SOCIAL INNOVATION
Programs	 R&D Tech Immersion R&D Data Science Integration Strategy LifeScience Collaboration 	// Open Innovation strategy// LifeHub Programs	Catalyst FundCatalyst BoxMini-Sessions	Cooperations with: // myAgro // One Acre Fund // Pula
Platforms & networks	 Science Communities Data Science Network Technology Platforms 	Global LifeHubNetworkOpen InnovationPortal	// Innovation Network// YOUniverse// WeSolve// Hype	



Why does the pharmaceutical industry need patents? (1/2)

Patents are essential to protect Bayer's innovation and intellectual property



- to obtain protection for our products and technologies in major markets
- to **exclude others** from making, using, or selling their invention in the country where the patent was issued for 20 years
- to reinvest the profits in sustainable R&D
- to limit the competition

Life Science collaboration and licensing enable

- access to
 - complementary technologies
 - external innovation potential
 - innovative external compounds
- licensing new assets
- divesting non-strategic assets



Why does the pharmaceutical industry need patents? (2/2)

- filing of patents require significant money and resources
 - → only those patents that have at least some potential to create value for the company should be filed

"Rule of thumb":

Patent applications

- should be linked to an active project or a product or
- should have the potential to enter a project

Total cost for a patent family can reach 0.5Mio€ over its lifetime!

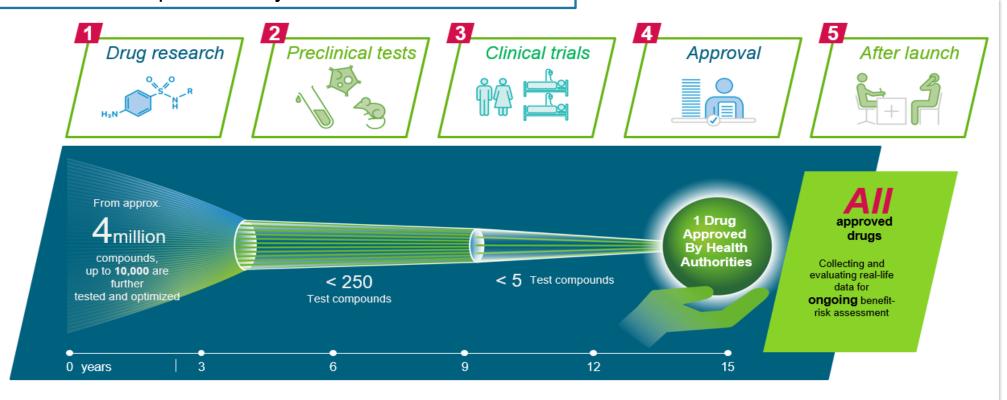




Patents and product development phases (1/2)

IP input along product development phases

- Freedom to operate
- Evaluation of patentability



Patents and product development phases (2/2)

Topics to be covered annually:

- search of competitor patents
- check new indications
- check formulations / product manufacturing process / improvements / modifications / compositions etc.
- check other items of IP relevance like e.g. patient selection, package designs etc.

Topics to be covered in the beginning of a new product development and every 3 years

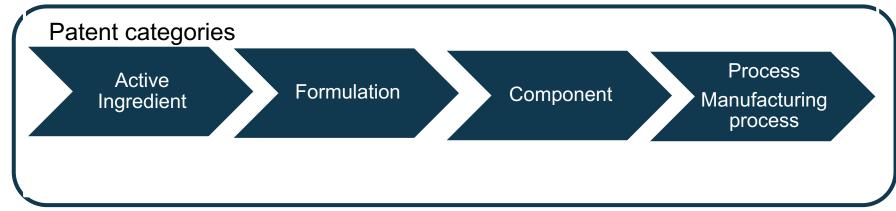
White spot analysis



About Bayer Oy Patent Portfolio



- The existing portfolio was group into 3 groups
 - (1) Patents for Bayer Oy Products (Mirena, Jaydess, Kyleena)
 - (2) Project related Patents
 - (3) New Innovations, Basic Technologies, and Miscellaneous





Some topics that have been valuable in our patent work

In addition to our German patent Counsel and our lawyers we have had a long term relationship with a local Finnish Patent Attorney

Benefits

- The local contact knows our products and patent portfolio inside out
- Can work seamless with our scientists in applications
- Can support in innovation sessions, trainings, workshops
- Masters the company patent process from A-Z as well as local aspects
- Serves as and advisor in any question





To Summarize...

- Importance of patents to protect innovative products and technologies
- Timing of patents
- Close collaboration with patent attorneys



Thank you!

6.10.2020 / Pirjo Kortesuo

