

Chapter 1

Innovation – **implementation** of a new or significantly improved product (goods or service), or process, new marketing method, or a new organisational method in business practises, workplace organisation or external relations.

- ✚ Invention – creative process involving creating something new
- ✚ Innovation – turning the idea into a viable product & getting it on the market so that consumers can acquire it.

Different forms of newness

- ✚ New producer
- ✚ New use
- ✚ New customers
- ✚ New technology
- ✚ Completely new product

The phases of innovation

1. Exploration – think outside the box , invent

- ✚ Innovation begins here & most creative of all 3 phases
- ✚ Originality, openness, vision, intuition & ability to improvise
- ✚ Try out new or different technologies
- ✚ Search for new ways of doing things
- ✚ Finding new ways to meet customer needs
- ✚ Associated with the research part of Research & Development

NB do not spend too much time & money in this phase as market changes e.g. Nedbank cash send was overtaken by ewallet yet it was their idea 1st.

2. Exploitation

- ✚ Commercialisation of potential new products & services
- ✚ Less creative compared to exploration but still NB
- ✚ Aligns new products with requirements of the market & consumer
- ✚ Makes the difficult decisions on how product/service has to be made & delivered to ensure profit as the end result

NB what might be obvious to inventors in exploration stage may not be favoured by potential consumers & users = loss i.e. ford kuga.

Other factors affecting incumbent firms

- **Traditions** – the way things being done for a long time becomes widely accepted such that change is difficult & traditions hard to break
- **Sunk costs** – prior investments where investment is technology specific
- Can't be transferred to new tech as its sunk in the old tech
- If firm invested heavily, expecting to spread cost over future output they make be reluctant to break from the old tech
- **Internal political constraints** – managers stuck up in old ways may see new tech as a threat, not innovate & stop others as well
- **Commitment to outmoded technology** – constrain innovation thus prolonging the period of equilibrium
- **PE** – helps explain existing firms reluctance to adopt new technology & why some innovators find it hard to interest existing firms with new ideas
- e.g. Dyson vacuum cleaner with dual cyclone tech that eliminated the need of a dust bag threatened their investment & manufacturing ideas
- it integrates the typology of innovation that distinguishes radical & incremental forms of innovation
- provides good fit with reality where technological discontinuities can be very disruptive

3. Dominant Design draw diagram

- ✚ the one that competitors & innovators must adhere to if they hope to command a significant market following
- ✚ constantly evolving, fluid, new designs & configurations being substituted for old ones
- ✚ intense design competition & rivalry until one design stands out
- ✚ breakthrough technology applied in different way to give a different product architecture
- ✚ variation, selection, retention = single design that forms the accepted market standard (shake outs)
- ✚ incremental innovations from branding/promotions
- ✚ firms seek to lower unit costs through economies of scale & learning
- ✚ highlights NB of user, who maybe more interested in usability instead of technical features
- ✚ shows the NB of business strategy within an innovation (e.g.) Toshiba lost out to Sony because their business strategy was about being 1st rather than customer acceptance

4. Absorptive capacity draw diagram

- ✚ Integrates both internal(knowledge , transfer, learning) & external (evolution of technology) dimensions of innovation
- ✚ Ability of firm to recognise the value of new, external info, assimilate it & apply it to commercial ends
- ✚ Emphasis is on learning thus differing from PE & Tech S-curve
- ✚ Exposure to relevant knowledge via networks keeps organisation abreast of any developments in the field
- ✚ Presence of prior knowledge plus diversity of experience = greater recognition of eternal ideas & stimuli

- ✚ search fee paid within a 12 month period o start the process
- 3. Full **"substantive" examination**
 - ✚ Final stage before granting of patent
 - ✚ Applicant pays further fee within 6 months of publication & detailed examination takes place to see if it meets relevant legal requirements of Patent Act 1997
 - ✚ Attention will be focused on whether documents reported at search stage & any others which have come to light since then indicate that invention is not in fact new or is obvious
 - ✚ Applicant gets report and make amendments at this stage
 - ✚ Upon satisfaction, examiner issues patent.

N.B. no worldwide patent each must be granted & enforced in each country.

Patent agent (NB) - lawyer specialising in Intellectual property law

- ✚ Combine a scientific, technical & legal background
- ✚ Provide advice on protection of IP for a fee but will also give guidance on whether the invention is patentable or not
- ✚ Draft patent applications for clients
- ✚ Area of expertise hence they can provide valuable info on what is involved in taking out a patent
- ✚ Conduct appropriate searches of patent records to ensure patent application is drafted sufficiently & specifically
- ✚ This provides inventor with genuine protection from infringement
- ✚ E.g. aerospace & pharmaceuticals employ full time **Patent Agents** to oversee their portfolio of intellectual property

Patent trolls (NB) – individuals (sometimes companies) that acquire patents often through bankruptcy.

- ✚ Do not utilize the patents to manufacture but they enforce them
- ✚ Challenge patents of existing products held by companies
- ✚ Anticipating **license fees, damages or out of court settlement**
- ✚ More of a problem in US than Europe

Legal remedies for infringement (theft/unlawful use)

- ✚ **Injunction** – restrains defendant from carrying out activities that infringe the patent/can issue restraining order to stop production asap
- ✚ **Damages**- compensate for loss/account of profit where instead of damages the award is based on profits made from infringement
 - o also ask perpetrator to handover all counterfeit items in order to destroy them to avoid further infringement
 - o some copies are so good that patent-holder decides to sell them

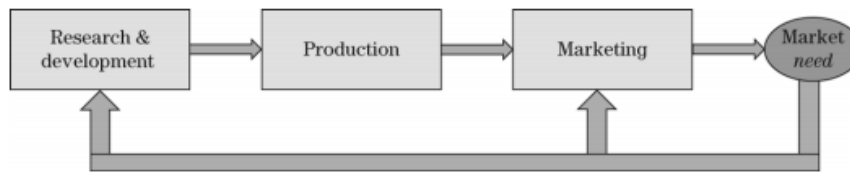
Ron Hickman's workmate portable bench licensed to Black & Decker was copied by Japanese Kinzo the counterfeits were so good that they demanded the counterfeit stock as part of their out of court settlement , relabelled and sold them.

NB legal costs can be more costly than the damage received (Hickman)

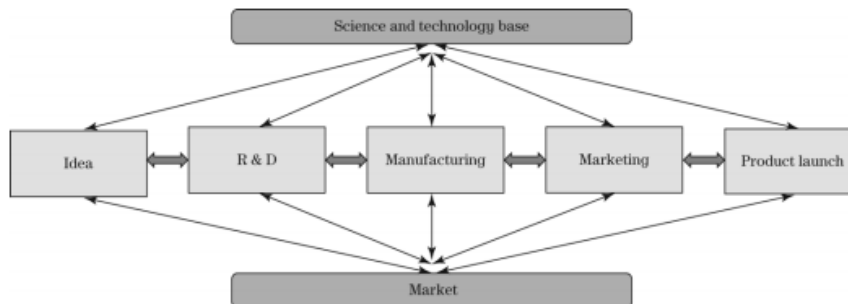
- ✚ **An order** – to destroy or handover infringing items to patent holder
- ✚ **A declaration**- that patent is valid & that indeed it has been infringed
- ✚ Accused tends to counter-petition stating invalidity of patent, should never have been granted and therefore be revoked.

Chapter 5 – The process of innovation

Demand pull – diagram and explain



Coupling - exam



PREVIEW

