



European Patent Convention

Art 53(a) – EPC

"European patents shall not be granted in respect of:

(a) inventions the commercial exploitation of which would be contrary to "ordre public" or morality; such exploitation shall not be deemed to be so contrary merely because it is prohibited by law or regulation in some or all of the Contracting States;"

Rule 28(c) – Implementing Regulations

- "Under Article 53(a), European patents shall not be granted in respect of biotechnological inventions which, in particular, concern the following: [...]
- (c) uses of *human embryos* for industrial or commercial purposes;"



What is a 'human embryo'?

- EPC
 - WARF (G2/06)
- Biotechnology Directive
 - Brüstle (C-34/10)
 - International Stem Cell Corporation (C-364/13)







Biotech Directive – Brüstle (C-34/10)

- Decision of CJEU (18 October 2011)
- Court decided that "human embryo" includes:
 - i. Fertilised human ovum
 - ii. Non-fertilised human ovum + transplanted adult cell nucleus
 - iii. Non-fertilised human ovum stimulated to divide by parthenogenesis
- Reason: "capable of commencing the process of development of a human being"



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Biotech Directive – ISCC (C-364/13)

- Decision of CJEU (18 December 2014)
- "... an unfertilised human ovum whose division and further development have been stimulated by parthenogenesis does <u>not</u> constitute a 'human embryo', within the meaning of that provision, if, in the light of current scientific knowledge, <u>it does not, in itself, have the</u> <u>inherent capacity of developing into a human</u> <u>being</u>, this being a matter for the national court to determine."



Summary

- Patentable
 - Human stem cells not obtained from embryos
 - Use of embryos for therapies or diagnostics that are useful to the embryo
 - Unfertilised human ova stimulated to divide by parthenogenesis providing that *it does not, in itself, have the inherent capacity of developing into a human being.*
- Not patentable
 - Inventions requiring the destruction of human embryos





