

Life Sciences Patent Eligibility: The US and Beyond

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U.S. Patent Eligibility



35 U.S.C. §101 – Four Categories of Eligible Subject Matter

Whoever invents or discovers any new and useful **process**, **machine**, **manufacture**, **or composition of matter**, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Judicial exceptions (JE) made by US courts: one cannot claim a law of nature (NL), a natural phenomena (NP), or an abstract idea (Al).

Why: granting a monopoly over the basic tools of scientific and technological work would pre-empt use of these tools in all fields, thereby impeding innovation.

Article I, §8, Clause 8 of the constitution empowers the US Congress:

<u>To promote the Progress of Science and useful Arts</u>, by securing for limited Times to Authors and Inventors the exclusive Right to their respective Writings and Discoveries.

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U.S. Patent Eligibility SCOTUS



Prometheus v. Mayo

A method of optimizing .. treatment of an immune-mediated gastrointestinal disorder, comprising:

- (a) administering a drug providing 6-thioguanine to a subject; and
- (b) determining the level of 6-thioguanine in the subject,

wherein a level of 6-thioguanine less than about 230 pmol per 8x108 red blood cells indicates a need to increase the amount of the drug and wherein a level of 6-thioguanine greater than about 400 pmol per 8x108 red blood cells indicates a need to decrease the amount of the drug.

- The claims do not add enough to the NL to describe an eligible process.
- administering merely refers to a preexisting audience.
- determining merely a routine activity.
- wherein merely describes the natural law without instructing its application.
- application must be significant, not too preemptive of JE, and include elements beyond the JE that constitute an "inventive concept" that is significant and separate from the NL itself.
- "appending conventional steps, specified at a high level of generality, to laws of nature, natural phenomena, and abstract ideas cannot make those laws, phenomena, and ideas patentable." (WURC)

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Alice Corp. v. CLS Bank

- Confirms that the Mayo test is the test for claims under § 101.
- Analyze steps individually & as ordered combination (Diehr claims cannot be deconstructed into their component steps but must be considered as a whole).
- The Mayo/Alice two-step test:
- (1) Is the claim directed to a JE (NP, AI, NL)?
- (2) Does the claim contain an "inventive concept" sufficient to "transform" the claim into a patent-eligible application of the JE?

Dicta (below) supports the idea that a **solution to a technical problem** is not an AI, and a claim drawn to such a solution, even if broad, will satisfy the *Alice/Mayo* two-step.

According to SCOTUS, "the claims in *Diehr* were patent eligible because they improved an existing technological process, not because they were implemented on a computer." In contrast, the *Alice* claims did not "improve the functioning of the computer itself" or "effect an improvement in any other technology or technical field."

(1) method for exchanging financial obligations, (2) computer system; (3) computer-readable medium







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