

# 35 U.S.C. § 101

§ 101 - Inventions Patentable:

"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."

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These are the four categories of invention. They define patentable subject matter.

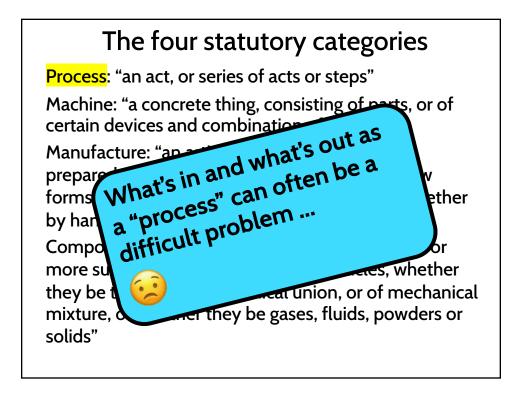
## The four statutory categories

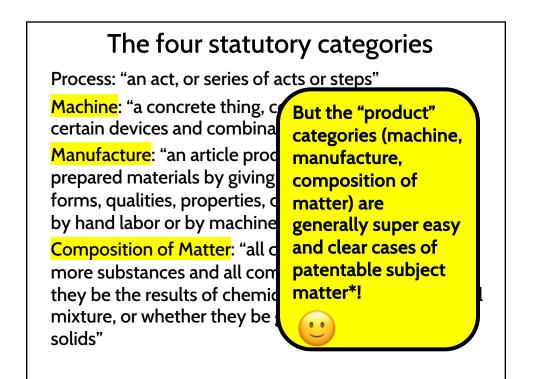
Process: "an act, or series of acts or steps"

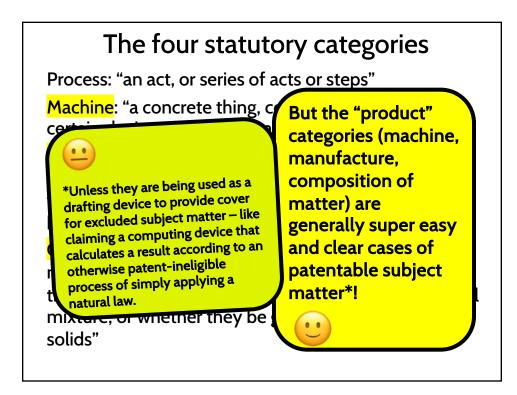
Machine: "a concrete thing, consisting of parts, or of certain devices and combination of devices"

Manufacture: "an article produced from raw or prepared materials by giving these materials new forms, qualities, properties, or combinations, whether by hand labor or by machinery"

Composition of Matter: "all compositions of two or more substances and all composite articles, whether they be the results of chemical union, or of mechanical mixture, or whether they be gases, fluids, powders or solids"







### Problem: Show shoveling device

A **device** for shoveling snow, comprising: a metal scoop having a sharp edge and a wooden handle extending therefrom for manipulation by a person using said device.

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#### Is this patentable subject matter?

Yes. Although a "device" isn't a word used in the categories of patentable subject matter, that's okay. Looking at this claim, the device is a machine (a concrete thing consisting of parts or devices), a manufacture (an article produced from raw or prepared materials), and a composition of matter (a composition of substances or composite article).

### Problem: Marketing paradigm

A **paradigm** for marketing software, comprising: a marketing company that markets software from a plurality of different independent and autonomous software companies, and carries out and pays for operations associated with marketing of software for all of said different independent and autonomous software companies, in return for a contingent share of a total income stream from marketing of the software from all of said software companies, while allowing all of said software companies to retain their autonomy.

(In re Ferguson; claim 24)



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I'm going to say "no" it's not "super easy" in the sense that, since it's not a genuine "product" (machine, manufacture, composition of matter), we will at least have to stop and think about it.

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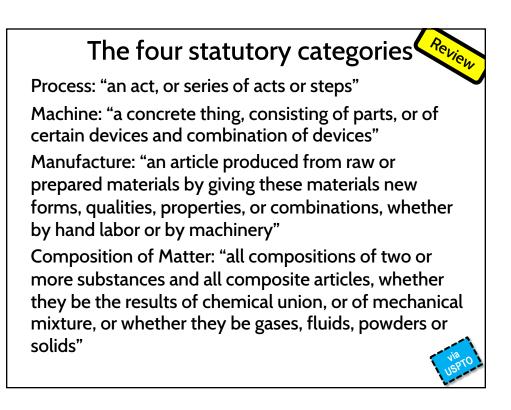
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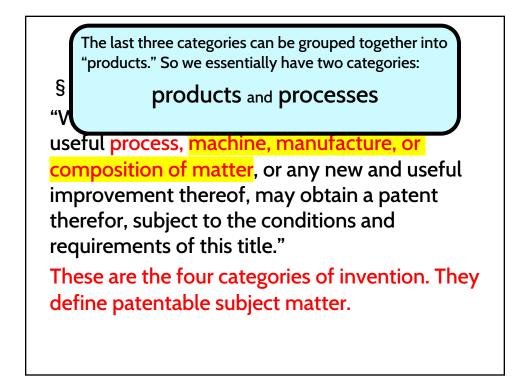
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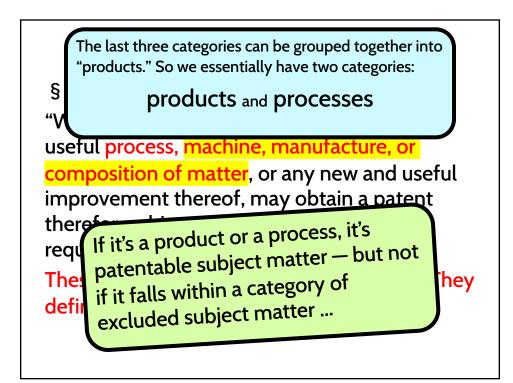
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A **paradigm** for marketing software ... *Is this patentable subject matter?* 

No. The "paradigm" is a business model for an intangible marketing company, not a process (series of steps), machine (a concrete thing consisting of parts or devices), manufacture (an article produced from raw or prepared materials), or composition of matter (a composition of substances or composite article).





# **Excluded subject matter**

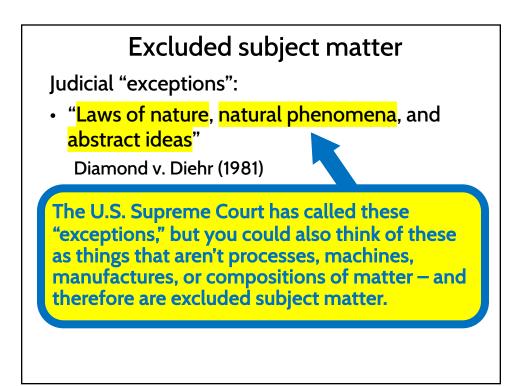
Judicial "exceptions":

 "Laws of nature, natural phenomena, and abstract ideas"

Diamond v. Diehr (1981)

Statutory exceptions, of which key examples are:

- tax strategies
- nuclear weapons inventions
- human organisms



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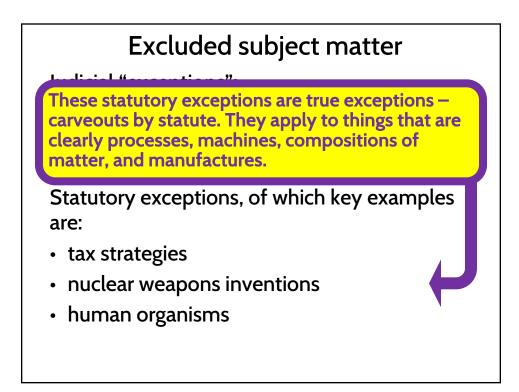
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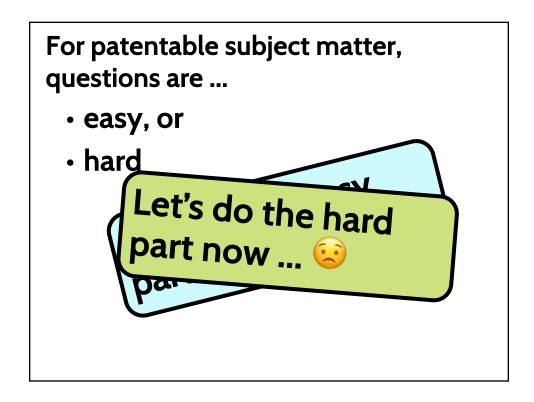
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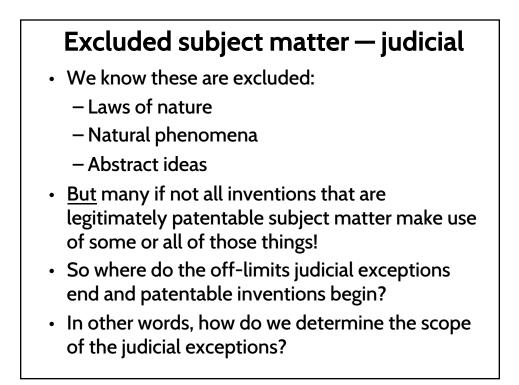
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## What is the scope of the judicial exceptions?

Mayo Collaborative v. Prometheus Labs
(U.S. 2012) created a two-part test:
(1) Determine whether the claim is directed to a patent-ineligible concept. If not, it's patentable.
(2) If yes, then ask whether the claim's elements, considered both individually and as an ordered combination, transform the nature of the claim into "significantly more" than the patent-ineligible subject matter.

### Problem: Method for determining force required

A **method** for determining the force required to accelerate a mass of a given quantity at a desired rate of acceleration wherein a computer takes inputs for said desired rate of acceleration and said mass and produces a result for said force according to the formula F=ma, in which F is said force, m is said mass, and a is said desired rate of acceleration.

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#### Is this patentable subject matter?

**No.** Newton's Second Law expressed as F=ma is a law of nature. Adding that a computer will calculate a result according to the formula does not work to transform this law of nature into patentable subject matter.

#### Problem: Method for determining heating capacity needed

How big of a heater do you need for your house? (I.e., how much heating capacity in BTUs per hour is needed?) HVAC professionals have a well-known rule of thumb: For a newer home in a warm climate, multiply the square footage by 30.

We claim: A **process** for determining the minimum installed heating capacity required for a newer home in a warm climate wherein a computer takes an input for said home's square footage, multiplies said input by 30, and displays the resulting number as said minimum installed heating capacity in BTUs.

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#### Is this patentable subject matter?

**No.** The rule of thumb is a patent-ineligible concept of how much heating capacity to install. Adding that a computer will calculate a result according to the formula does not transform the rule of thumb into patentable subject matter.