

Reading a Patent

CSE490T/590T

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Understanding Patents

- Patents are commonly misunderstood in the popular press
- Typical reading: read the first page of a patent or patent application, then opine on the terrible consequences that follow
- A core goal of this course: help you critically read and understand a patent

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Patent Structure

- Specification
 - Abstract
 - Background
 - Written Description
 - Claims
- Drawings
- *This structure is the same for an application and an issued patent.*

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Lifecycle of a Patent Application

1. File application (including specification, figures, and at least one claim)
2. Examiner searches
3. If no prior art, then application issues into patent
4. Otherwise, Examiner issues Office Action, rejecting claims
5. Applicant distinguishes the prior art with:
 - Argument e.g., the prior art does not teach X
 - Claim amendments
6. Go to 2

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Understanding Patents

Patents are two-faced:

1. To understand the legal effect of a patent (i.e., what is invented, what is forbidden), read its claims.
2. To understand its “teachings” or effect as prior art, read the figures and written description

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Reading for Legal Effect

- Read the title & abstract
- Scan the figures
- Read the first claim
- If the claim doesn’t make any sense on its own, start reading the written description, using the figures as your guide
- Every word of the claim matters
- The more words, the narrower the claim

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Patent No. 6,285,999

(13) United States Patent
Page

(11) Patent No. US 6,285,999 B1
(15) Date of Patent: Sep. 4, 2001

METHOD FOR NODE RANKING IN A LINKED DATABASE

(52) Invention by Lawrence Page, Stanford, CA (US)
(51) Art. of Patent of the United States: G06F 17/30

(73) Name: Subject to any disclaimer, the term of this invention is defined as follows: 30 (15) 15431 to 15436

(21) Appl. No. 08/604227
(22) Filed: June 1, 1996

(93) Related U.S. Application Data: 08/604227, filed on the same day as this application, is a continuation-in-part of U.S. Pat. No. 5,541,000, filed on Jun. 1, 1996.

(54) Int. Cl. 7: G06F 17/30
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6,300,000; 6,302,000; 6,304,000; 6,306,000; 6,308,000; 6,310,000; 6,312,000; 6,314,000; 6,316,000; 6,318,000; 6,320,000; 6,322,000; 6,324,000; 6,326,000; 6,328,000; 6,330,000; 6,332,000; 6,334,000; 6,336,000; 6,338,000; 6,340,000; 6,342,000; 6,344,000; 6,346,000; 6,348,000; 6,350,000; 6,352,000; 6,354,000; 6,356,000; 6,358,000; 6,360,000; 6,362,000; 6,364,000; 6,366,000; 6,368,000; 6,370,000; 6,372,000; 6,374,000; 6,376,000; 6,378,000; 6,380,000; 6,382,000; 6,384,000; 6,386,000; 6,388,000; 6,390,000; 6,392,000; 6,394,000; 6,396,000; 6,398,000; 6,400,000; 6,402,000; 6,404,000; 6,406,000; 6,408,000; 6,410,000; 6,412,000; 6,414,000; 6,416,000; 6,418,000; 6,420,000; 6,422,000; 6,424,000; 6,426,000; 6,428,000; 6,430,000; 6,432,000; 6,434,000; 6,436,000; 6,438,000; 6,440,000; 6,442,000; 6,444,000; 6,446,000; 6,448,000; 6,450,000; 6,452,000; 6,454,000; 6,456,000; 6,458,000; 6,460,000; 6,462,000; 6,464,000; 6,466,000; 6,468,000; 6,470,000; 6,472,000; 6,474,000; 6,476,000; 6,478,000; 6,480,000; 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6,846,000; 6,848,000; 6,850,000; 6,852,000; 6,854,000; 6,856,000; 6,858,000; 6,860,000; 6,862,000; 6,864,000; 6,866,000; 6,868,000; 6,870,000; 6,872,000; 6,874,000; 6,876,000; 6,878,000; 6,880,000; 6,882,000; 6,884,000; 6,886,000; 6,888,000; 6,890,000; 6,892,000; 6,894,

Example Apparatus Claims

1. A lawn-cutting apparatus, comprising:
an electric lawn mower;
a solar panel configured to provided power to the electric lawn mower;
and
a motion controller configured to autonomously navigate the electric lawn mower about a lawn.
2. The lawn-cutting apparatus of claim 1, wherein the motion controller is configured to detect and avoid objects.
3. The lawn-cutting apparatus of claim 1, further comprising a range sensor configured to provide range data to the motion controller, the range data indicating a distance between the range sensor and a remote object.