

# Dolcera's Poster on Industrial Biotechnology

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## Using Dashboard for innovation in Industrial Biotechnology

There is a need for information visualization tools that can map thousands of patents, technical literature etc. in Industrial Biotechnology world to fully understand the universe of organisms, enzymes, feedstock, products and by-products and the inter-relationships between them.

To solve the above problem, Dolcera builds customized dashboards, with customized categorization, for Industrial biotechnology companies helping them map innovation to the following basic variables:

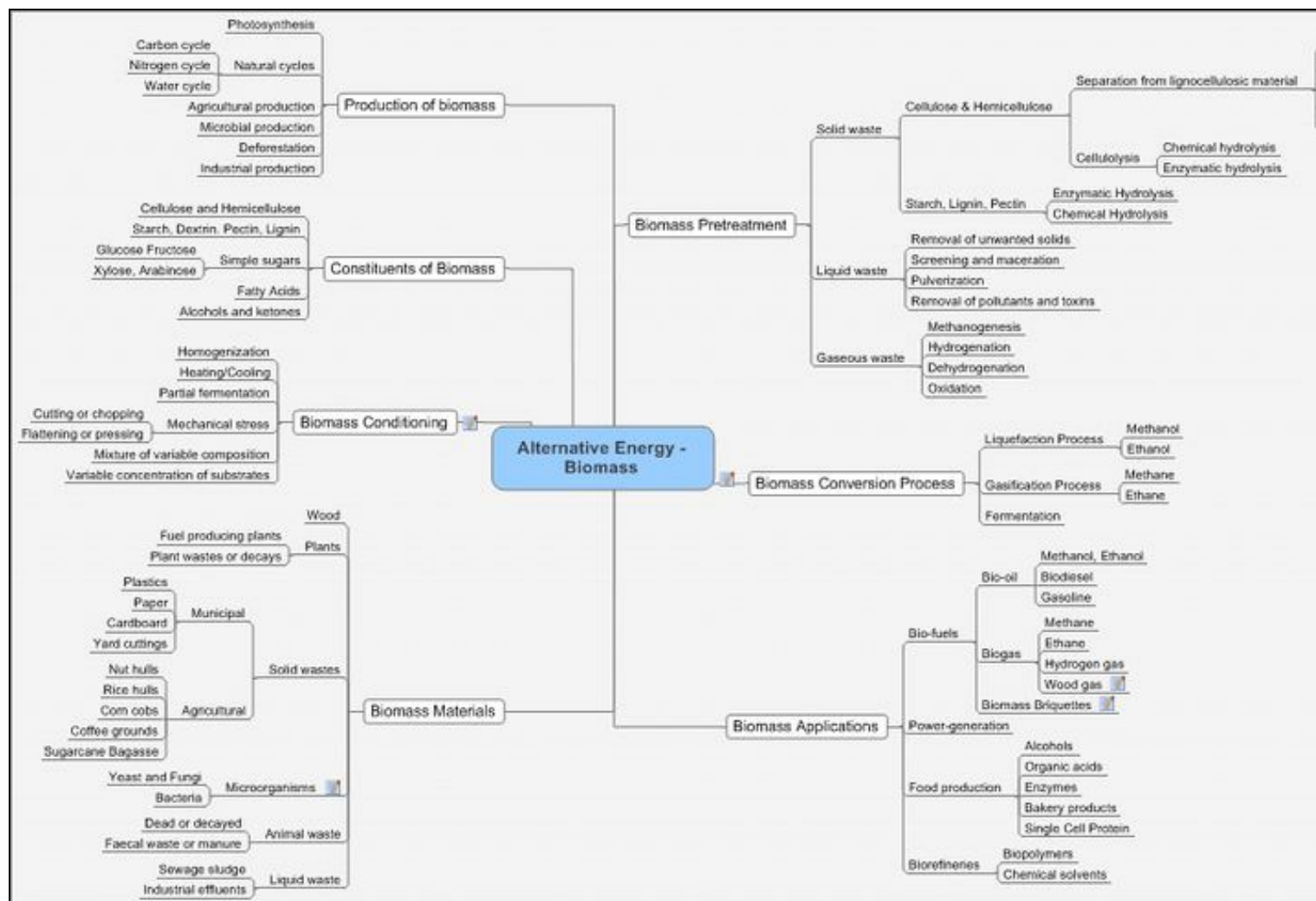
- Various feedstock
- Pre-treatment methods for feedstock
- A variety of enzymes, bacteria, fungi, yeast or a modified version of any of these that feed on feedstock
- Output or products that are obtained when the enzymes or bacteria or fungi or yeast feed on these feedstock.

Such detailed mapping of patents+technical literature activity to the above categories with the dashboard visualization tool helps companies map the entire technology landscape.

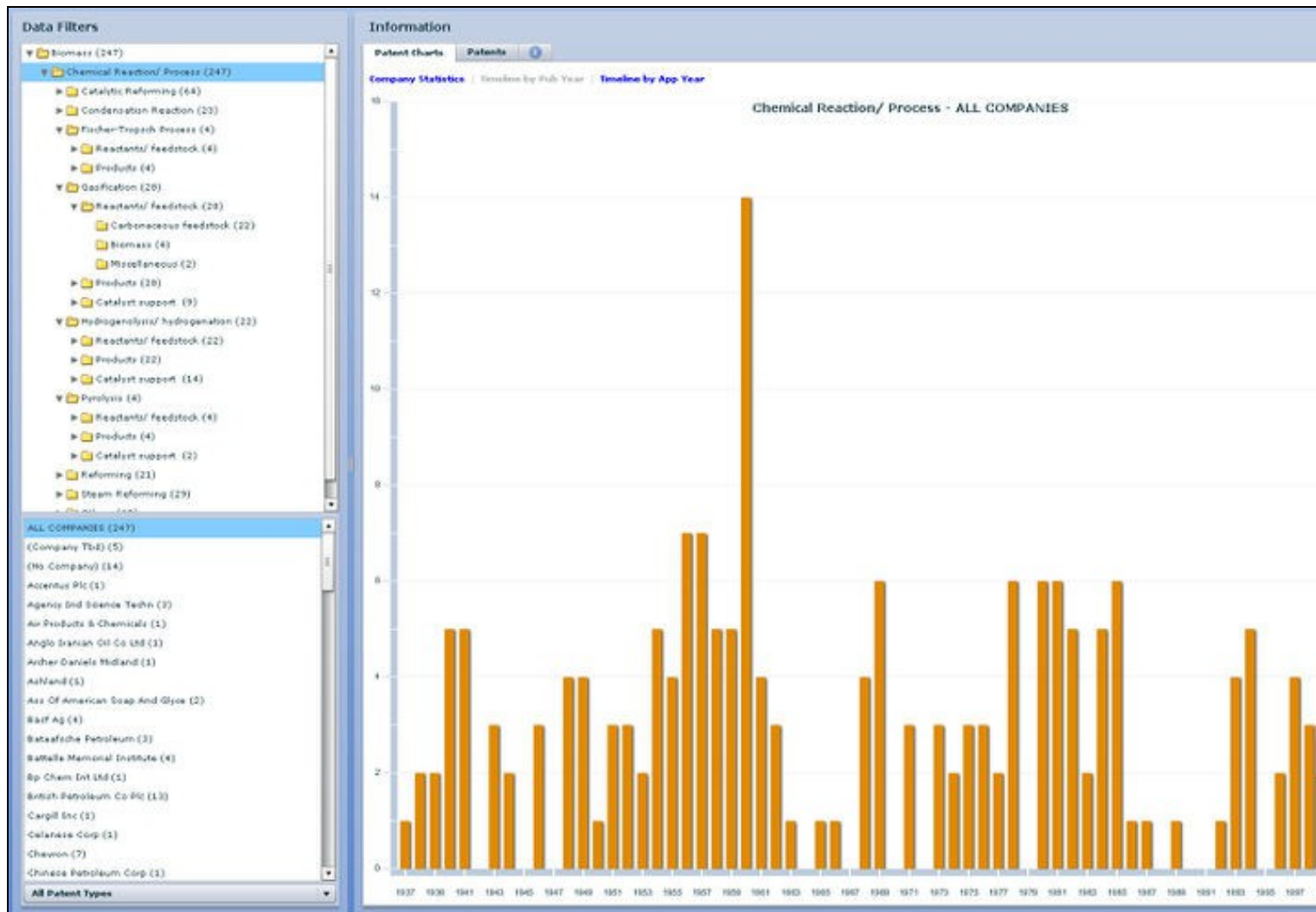
We believe that this process of mapping the technology landscape for biotechnology, albeit customized for your needs, helps companies identify white spaces that they can potentially exploit for research or patenting opportunities.

## Dolcera Innovation process

### Step 1 - Detailed customized categorization



### Step 2 - Assigning analyzed technical documents to these categories



Step 3 - Deep dive analysis into the technical documents to identify white spaces

- Dashboard Screenshot 2

### Data Filters

- Biomass (247)
  - Chemical Reaction/ Process (247)
    - Catalytic Reforming (64)
    - Condensation Reaction (22)
    - Fischer-Tropsch Process (4)
    - Reactants/ Feedstock (4)
    - Products (4)
    - Gasification (20)
      - Reactants/ Feedstock (28)
        - Carbonaceous feedstock (22)
        - Biomass (4)
        - Miscellaneous (2)
      - Products (20)
      - Catalyst support (9)
    - Hydrogenation/ Hydrogenation (22)
      - Reactants/ Feedstock (22)
      - Products (22)
      - Catalyst support (14)
    - Pyrolysis (4)
      - Reactants/ Feedstock (4)
      - Products (4)
      - Catalyst support (2)
    - Reforming (21)
    - Steam Reforming (29)

### Information

Publication

US20050123472A1 Hydrogen production

US5651953A Method of producing hydrogen from biomass

EP103160A1 Catalytic upgrading of reduced crudes and residual oils with a coke selective catalyst.

US20050123472A1 Hydrogen production

US Class (p)

IPC Class (p)

Abstract:

Hydrogen is a mixture of generate one subjecting then to a wa The resulting selective oxid diluting the hydrogen ma used at an of

European Patent Office

Office européen des brevets

EUROPEAN PATENT APPLICATION

Application number: 02009642

Date of filing: 05.08.02

Priority: 02.08.02 US 020070

Date of publication of application: 21.03.04

Destination Contracting States: AT BE CH DE FR GB IT NL SE

Applicant: ARPLAND OIL, INC., P.O. Box 101, St. Louis, Kentucky 63114 (US)

Inventor: Miller, Charles B., 201 Beldens Drive, Ashland Kentucky 41007 (US)

Representative: Black, Barbara, Esq., c/o Black & Gould Rechtsanwälte, L.S.-Gut-Markt 1 (DE)

Catalytic upgrading of reduced crudes and residual oils with a coke selective catalyst.

The present invention is concerned with upgrading reduced crudes to gasoline product with a coke selective hydrogen stable catalyst comprising a porous support of at least 60 weight percent of alumina and pore walls made in an acidic media and affecting regeneration thereof in an oxygen rich atmosphere under CO semireactive conditions. A compound of antimony is added in platinum catalyst. The regeneration of the catalyst is effected by which up to 0.25 weight percent carbon and heat balance of the operation is limited as a function of metal promoted CO built within a dense fluid bed of catalyst being regenerated.

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