

PATI

Patent Application Text Initiative



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Office of Patent Information Management (OPIM)

United States Patent and Trademark Office



PATI: Purpose

PATI is designed to be an investigation into text related issues for Patents End-to-End (PE2E).

One major assumption of PE2E is that it will be a text based system. This means examining from text, not images. The Office does not have a text format standard for application content apart from publication standards.

PATI is proposed to address issues revolving the use of text in the future End to End system.

PATI is also intended to test “analytic” technology with examiners.



PATI: Business Program Structure

PATI will address these questions using these implementation details:

- Application text will be provided in about 20,000 cases
- Two distinct sources of text will be utilized
- Two Work Groups will be provided access to the text
- Each group will be provided with examination assistive technology that leverages patent application text – AKA “analytic report”
- PATI Team will coordinate user feedback:



PATI: Analytics

Based on data collected by OPIM over the last decade, the 3 most requested text based capabilities are:

1. Ability to copy text from patent applications and paste into Office actions
2. Ability to search application content
3. Ability to manage screen space without a reduction of readability

Additional requested features fall into the category PATI terms “analytics”. These include:

1. Claims tree diagrams
2. Content comparison

PATI will address each of these requests. The following screens are screenshots taken from existing prototype code developed as a proof-of-concept.

Claims Report -

Compare Two Claims

Claims Report

Claims Inventory

• 40 Total • 1 Independent • 39 Dependent • 0 Multiple Dependent •

Claim Tree

```

1
├── 2
│   ├── 3
│   │   ├── 4
│   │   └── 7
│   ├── 5
│   │   └── 6
│   ├── 8
│   │   ├── 9
│   │   └── 10
│   ├── 11
│   ├── 12
│   ├── 13
│   │   ├── 14
│   │   ├── 15
│   │   └── 16
│   │       ├── 17
│   │       ├── 20
│   │       │   ├── 21
│   │       │   ├── 22
│   │       │   └── 24
│   │       └── 19
│   │           ├── 23
│   │           ├── 26
│   │           └── 28
│   └── 18
│       ├── 25
│       ├── 27
│       └── 29
│           ├── 30
│           ├── 31
│           └── 36
│               ├── 38
│               └── 40
│                   └── 39

```

ERROR: Claim 37 depends from claim 66, but claim 66 does not exist.

ERROR: Claims 33 and 34 form a circular dependency loop.

ERROR: Claims 32, 33, 34 and 35 are disconnected from any independent claim.

ERROR: Claim 37 is disconnected from any independent claim.

Term frequency usage in Claims

Count	Term	Claims containing the term
51 23 24 27	drying	1* 2 3 4 5 6 7 10 12 13 14 17 18 19 20 21 22 28 29 31 32 33 34 35 36 37 39
44	chamber	1* 4 7 12 13 14 17 18 19 20 21 22 23 24 27

Claims -

Numeric order

1. A method of operating a laundry dryer comprising a rotatable drum at least partially defining a drying chamber for drying laundry, an airflow system fluidly coupled to the drying chamber for flowing air through the drying chamber, a heater for heating the air in the airflow system, a dispensing system fluidly coupled to the drying chamber for dispensing a treating chemistry into the drying chamber, a controller operably coupling the rotatable drum, airflow system, heater, and dispensing system, to selectively control their operation to implement a drying cycle stored in the controller to dry the laundry, the method comprising: dispensing a treating chemistry into the drying chamber to treat the laundry; and

executing a clean-out cycle to remove the treating chemistry from the drying chamber.
2. The method according to **claim 1**, wherein the dispensing is implemented as part of the drying cycle.

Detailed Description -

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims priority from U.S. Provisional Application No. 61/077,509 filed on Jul. 2, 2008, entitled A METHOD FOR OPERATING A CLEANOUT CYCLE IN A DISPENSING DRYER hereby incorporated by reference.

BACKGROUND OF THE INVENTION

[0002] Dispensing dryers, while known, are still an uncommon type of clothes dryer, which dispense a treating chemistry onto a load of laundry during a drying cycle of operation. The treating chemistry may be any chemistry applied to the laundry such as water, bleach, perfume, softener, stain guard, anti-wrinkling, whitening, color guard or the like. Spraying may be used to deliver the treating chemistry from a dispensing system to the drying chamber.

SUMMARY OF THE INVENTION

[0003] The invention relates to a method for operating a cleanout cycle to remove treating chemistry in a



PATI: Analytics

The Claims Report contains the following information:

- Claims Inventory
 - Total number of claims
 - Number of independent claims
 - Number of dependent claims
 - Number of multiple dependent claims
- Claim Tree
 - Also a listing of dependency errors
- Claim term frequency
 - Number of times term used in claims
 - Claims in which term is used
- Claim terms not found in specification
- Claim phrases not found in specification
- Phrase Usage in claims

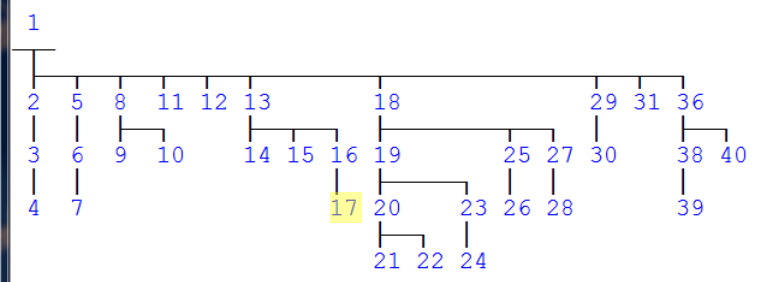
Compare Two Claims

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20	chamber	28 29 31 32 33 34 35 36 37 39
44	dryer	1* 4 7 12 13 14 17 18 19 20 21 22 23

Numeric order

14. The method according to **claim 13**, wherein the flowing of air comprises pulsing the flow of air through the drying chamber.

15. The method according to **claim 13**, wherein the flowing of air is the first action in the clean-out cycle.

16. The method according to **claim 13**, wherein the flowing of air comprises flowing air at the maximum flow rate of the airflow system.

17. The method according to **claim 16**, wherein the flowing of air comprises pulsing the flow of air through the drying chamber.

18. The method according to **claim 1**, wherein the executing the clean-out cycle comprises dispensing the clean-out chemistry from the dispensing system into the drying chamber to form a mixture of the clean-out chemistry and the treating chemistry.

19. The method according to **claim 18**, wherein the executing the cleanout cycle further comprises removing the mixture from the drying chamber.

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SUMMARY OF THE INVENTION

[0003] The invention relates to a method for operating a cleanout cycle to remove treating chemistry in a dispenser dryer.

Compare Two Claims

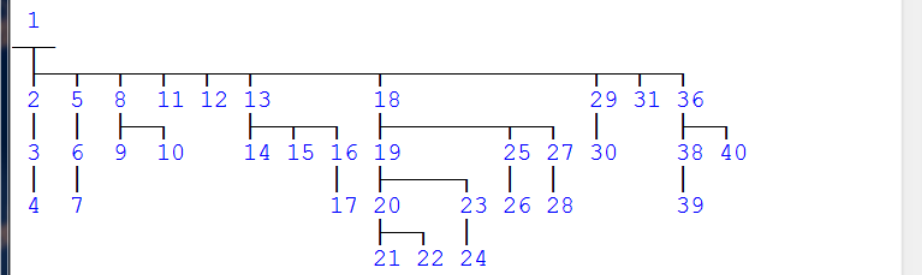
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20	chamber	20 21 22 23 24 27
44	treating	28 29 31 32 33 34 35 36 37 39
1	treating	1* 4 7 12 13 14 17 18 19 20 21 22 23

4. The method according to **claim 3**, wherein the executing of the clean-out cycle is executed after the removal of the laundry from the drying chamber.
5. The method according to **claim 1**, wherein the dispensing is part of a **treating** cycle separate from the drying cycle.
6. The method according to **claim 5**, wherein the executing of the clean-out cycle is executed after the completion of the drying cycle.
7. The method according to **claim 6**, wherein the executing of the clean-out cycle is executed after the removal of the laundry from the drying chamber.
8. The method according to **claim 1**, further comprising determining which clean-out cycle to execute from a plurality of clean-out cycles stored in the controller.
9. The method according to **claim 8**, wherein the determination of which clean-out cycle to execute comprises determining at least one previously dispensed treating chemistry.
10. The method according to **claim 8**, wherein the determination

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BACKGROUND OF THE INVENTION

[0002] Dispensing dryers, while known, are still an uncommon type of clothes dryer, which dispense a **treating** chemistry onto a load of laundry during a drying cycle of operation. The **treating** chemistry may be any chemistry applied to the laundry such as water, bleach, perfume, softener, stain guard, anti-wrinkling, whitening, color guard or the like. Spraying may be used to deliver the **treating** chemistry from a dispensing system to the drying chamber.

SUMMARY OF THE INVENTION

[0003] The invention relates to a method for operating a cleanout cycle to remove **treating** chemistry in a dispenser dryer.



PATI: Summary

The features developed and shown in the functional code will be incorporated into the examiners' regular patent application viewing tool, eDAN.

The Office is anticipating an August deployment to the selected Work Groups.

Information gleaned from the program will be fed into requirements for Patents End-to-End development.

The infrastructure created through PATI will be available to test other text sources as deemed appropriate.

Thank You



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