



US007141124B2

(12) **United States Patent**
Rusciolelli

(10) **Patent No.:** **US 7,141,124 B2**

(45) **Date of Patent:** **Nov. 28, 2006**

(54) **PROCESSES AND COMPOSITIONS FOR USE
IN GARMENT RESTORATION**

(75) Inventor: **J. Michael Rusciolelli**, 6301 Brent Dr.,
Springfield, IL (US) 62707

(73) Assignee: **J. Michael Rusciolelli**, Springfield, IL
(US)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **10/434,245**

(22) Filed: **May 8, 2003**

(65) **Prior Publication Data**

US 2004/0221873 A1 Nov. 11, 2004

(51) **Int. Cl.**
B08B 3/00 (2006.01)

(52) **U.S. Cl.** **134/30**; 134/25.1; 134/25.4;
134/26; 134/39; 134/42; 422/5; 510/108;
510/276; 510/281; 510/291; 8/137

(58) **Field of Classification Search** 8/107,
8/111, 137, 158, 159, 137.5, 139; 134/19,
134/25.1, 25.4, 25.5, 31, 32, 34, 38, 39, 40,
134/42, 2, 20, 26; 510/108, 276, 281, 291,
510/292, 109; 422/5

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | | | |
|-----------|-----|---------|------------------|-------|---------|
| 1,362,658 | A * | 12/1920 | Willford | ..... | 8/137 |
| 3,194,628 | A * | 7/1965 | Cannon | ..... | 8/137 |
| 5,178,828 | A * | 1/1993 | Uesugi | ..... | 422/22 |
| 5,181,399 | A * | 1/1993 | Engel et al. | ..... | 68/13 R |
| 5,213,773 | A * | 5/1993 | Burris | ..... | 422/256 |
| 5,241,720 | A * | 9/1993 | Engel et al. | ..... | 8/158 |
| 5,493,743 | A * | 2/1996 | Schneider et al. | ..... | 8/149.2 |
| 5,645,608 | A * | 7/1997 | Cooper et al. | ..... | 8/137 |
| 5,763,382 | A * | 6/1998 | Cooper et al. | ..... | 510/303 |
| 5,928,490 | A * | 7/1999 | Sweeney | ..... | 205/700 |
| 5,960,501 | A * | 10/1999 | Burdick | ..... | 8/158 |

| | | | | | |
|--------------|------|--------|-----------------|-------|---------|
| 6,272,770 | B1 * | 8/2001 | Slutsky et al. | ..... | 34/596 |
| 6,408,471 | B1 * | 6/2002 | Teran et al. | ..... | 8/158 |
| 6,673,121 | B1 * | 1/2004 | Mettlach et al. | ..... | 8/149.1 |
| 6,750,191 | B1 * | 6/2004 | Kasturi et al. | ..... | 510/417 |
| 2002/0073491 | A1 * | 6/2002 | Mettlach et al. | ..... | 8/149.1 |

FOREIGN PATENT DOCUMENTS

| | | | |
|----|-----------|---|---------|
| JP | 3-146094 | * | 6/1991 |
| JP | 5-161773 | * | 6/1993 |
| JP | 409276882 | * | 10/1997 |
| JP | 2000-5483 | * | 1/2000 |

OTHER PUBLICATIONS

N. Schiff. After the Fire is Out. The case for Wet cleaning, Where
practical. 1999. www.schiff-consulting.com/fire.html.*

Internet Archive "Wayback Machine" search for <http://www.schiff-consulting.com/fire.html>.*

N.Schiff. After the Fire is Out. The case for Wet Cleaning, Where
Practical. Copyright 2000.*

Jon-Don, information sheet from website, 2 pages, printed Mar. 29,
2003.

Laundry Today, information sheet from website, 2 pages, printed
Mar. 29, 2003.

Air Pure, Ozone information sheet from website, 3 pages, printed
Mar. 29, 2003.

Buy-Internet-Direct.com, information sheet from website, 1 page,
printed Mar. 29, 2003.

Iris City Cleaners & Laundering Co., information sheet from
website, 2 pages, printed Mar. 29, 2003.

The Disaster Handbook 1998 National Edition, Institute of Food
and Agricultural Sciences, University of Florida, information from
website, 6 pages, printed Mar. 29, 2003.

* cited by examiner

Primary Examiner—M. Kornakov

(74) *Attorney, Agent, or Firm*—Polsinelli Shalton Welte
Suelthaus PC

(57) **ABSTRACT**

The present invention relates to process and methods, as
well as compositions and systems for use in laundering
smoke-damaged garments. In particular, the present inven-
tion utilizes ozonated water to treat the smoke-damaged
garments.

14 Claims, 3 Drawing Sheets

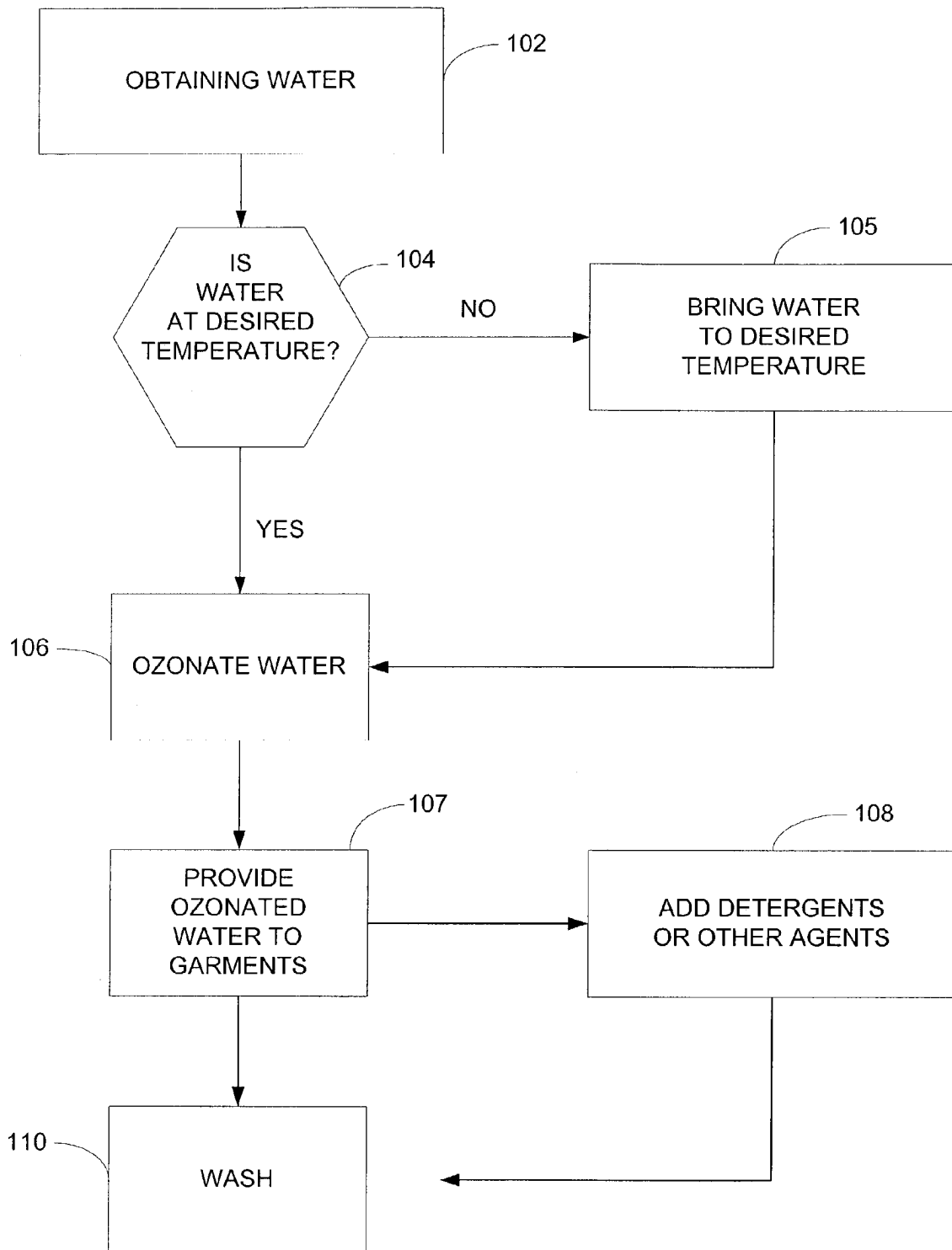


Fig. 1

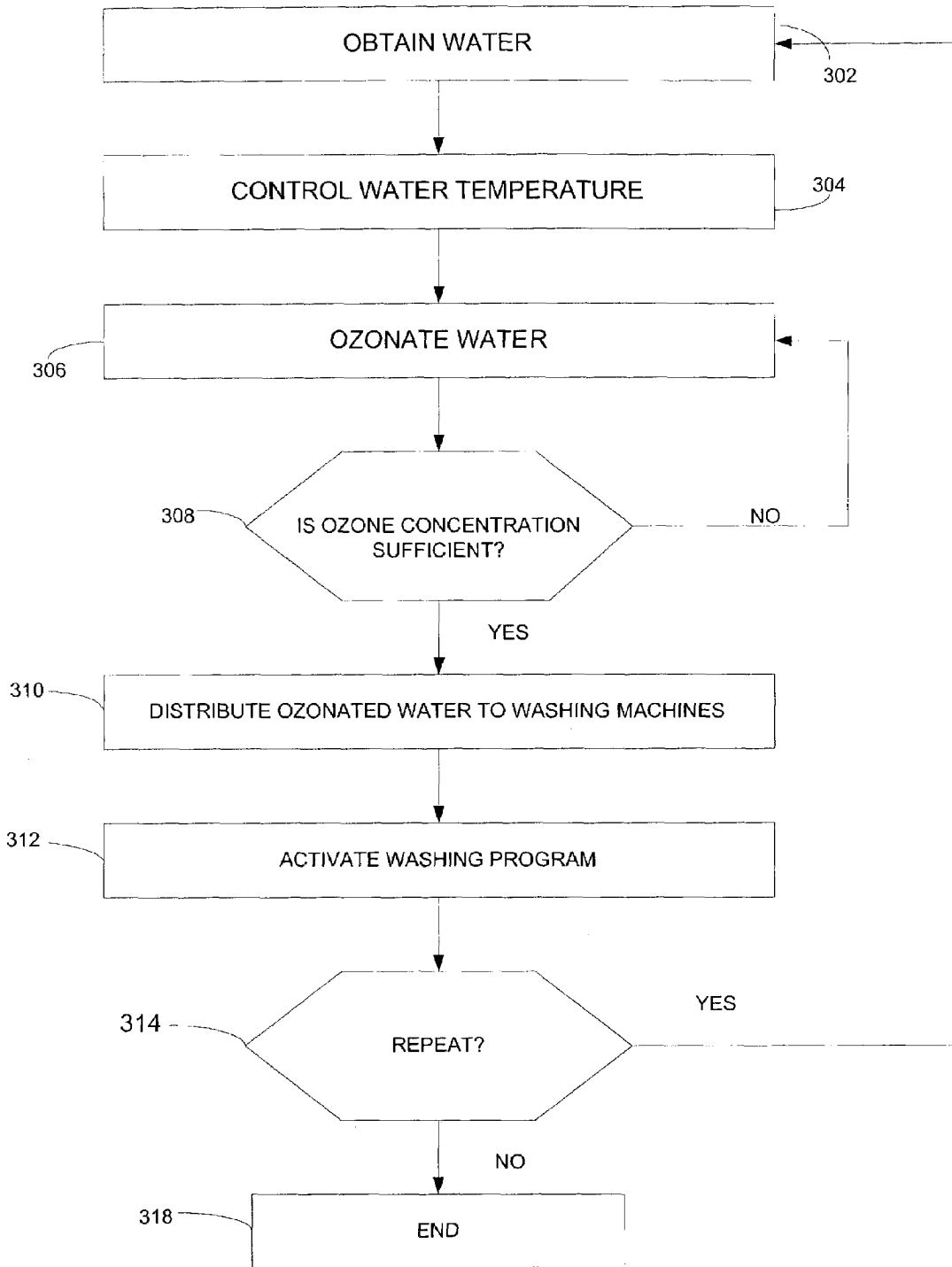


Fig. 3