



US 20080299854A1

(19) **United States**

(12) **Patent Application Publication**
Hilleary et al.

(10) **Pub. No.: US 2008/0299854 A1**

(43) **Pub. Date: Dec. 4, 2008**

(54) **FLAME RESISTANT SPACER FABRIC**

Publication Classification

(75) Inventors: **Scott N. Hilleary**, Spring City, TN (US); **Howard Scroggins**, Grandview, TN (US)

(51) **Int. Cl.**
B32B 5/02 (2006.01)
D02J 1/00 (2006.01)
D04B 1/00 (2006.01)
(52) **U.S. Cl.** **442/136**; 264/103; 442/314

Correspondence Address:
ALSTON & BIRD LLP
BANK OF AMERICA PLAZA, 101 SOUTH TRYON STREET, SUITE 4000
CHARLOTTE, NC 28280-4000 (US)

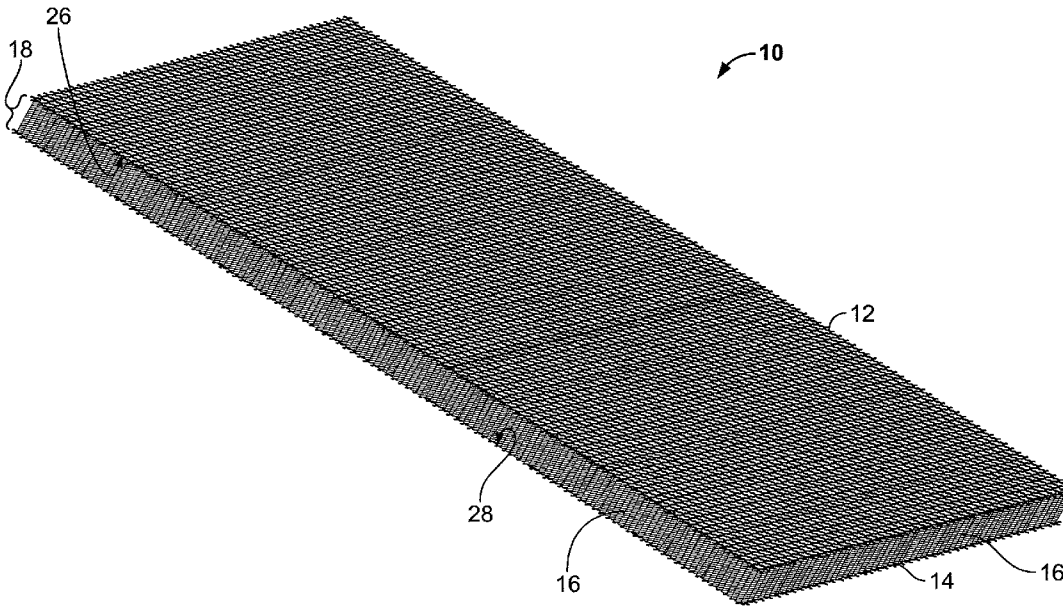
ABSTRACT

The present invention provides a heat resistant spacer fabric comprising a first and second fabric layers that are formed of a flame resistant material arranged in opposing face-to-face relation and are spaced apart from each other. The first and second fabric layers are interconnected to each other with one or more spacer fibers that interconnect the first and second fabric layers and define a space therebetween. The spacer fibers comprise at least one core fiber having one or more wrap fibers of a flame resistant material wrapped thereabout. The wrap fibers protect the core fibers from direct contact with heat and flame. If the spacer fabric is exposed to heat/flame, the flame resistant wrap fibers help to prevent any melted material of the core fibers from flowing out of the spacer fabric. The spacer fabric can be used in protective garments such as coats, gloves, pants, cover-alls, suits, etc.

(73) Assignee: **SSM Industries, Inc.**

(21) Appl. No.: **11/756,850**

(22) Filed: **Jun. 1, 2007**



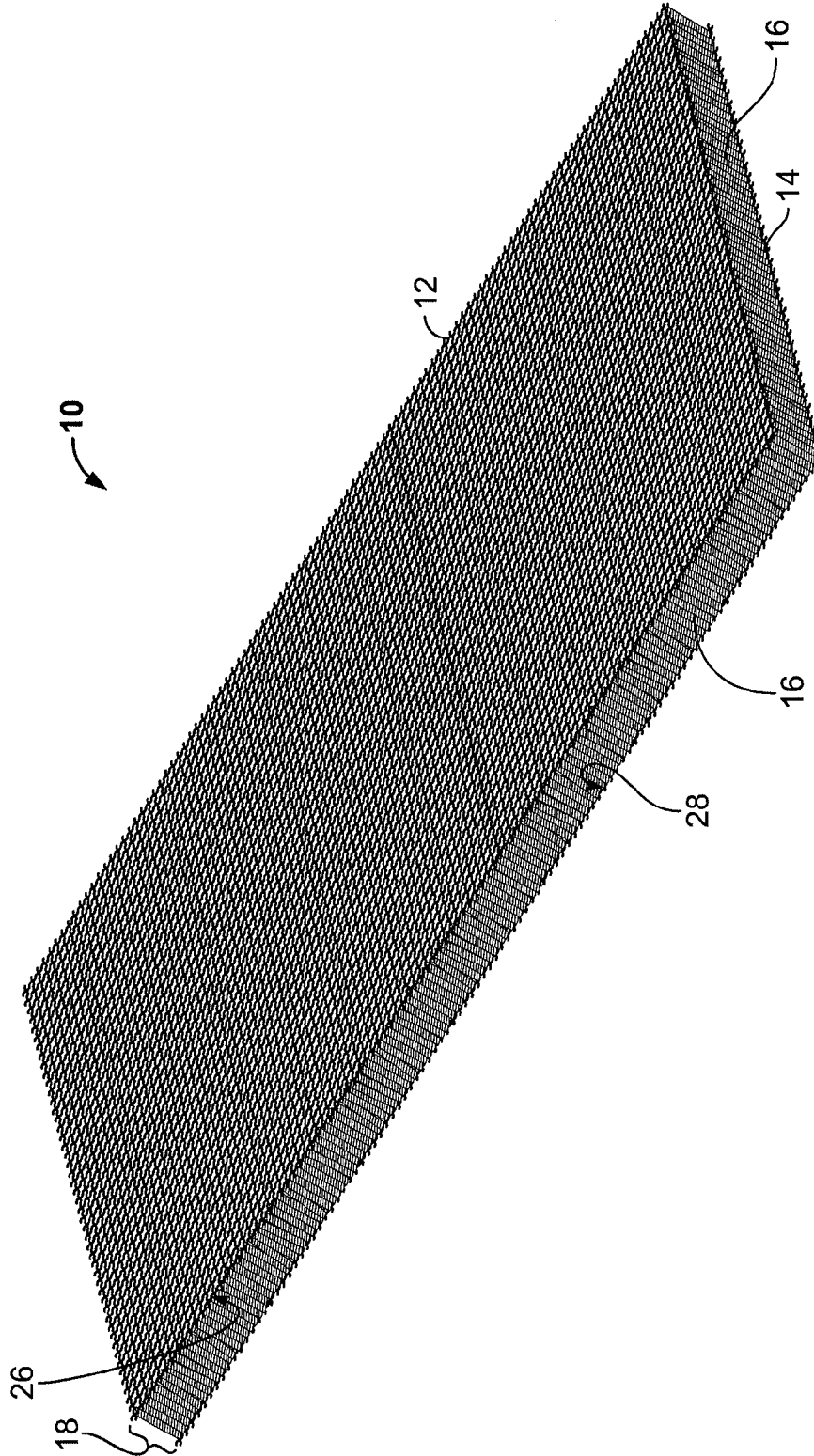


FIG. 1

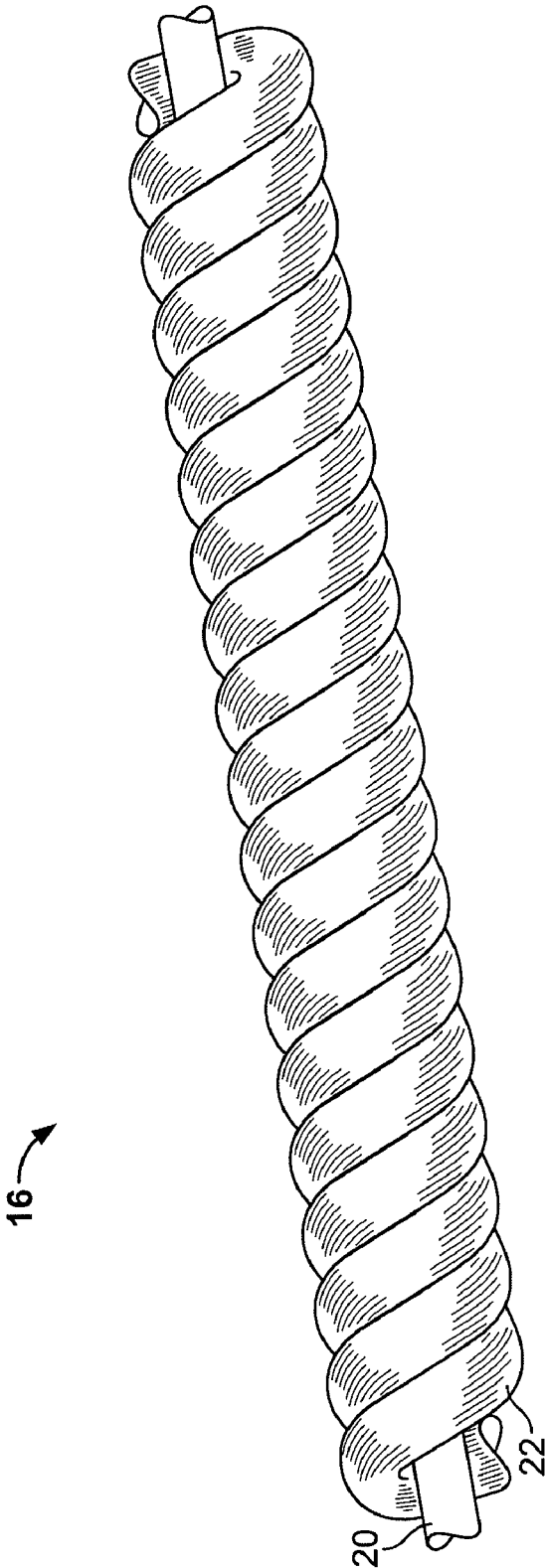


FIG. 2A

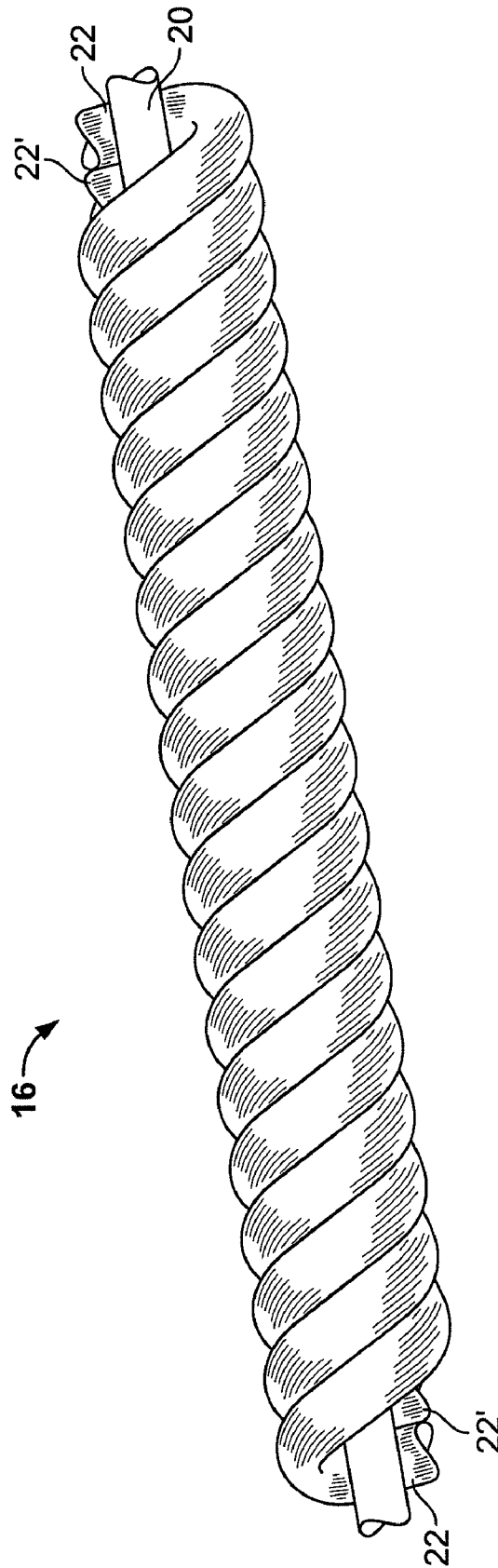


FIG. 2B

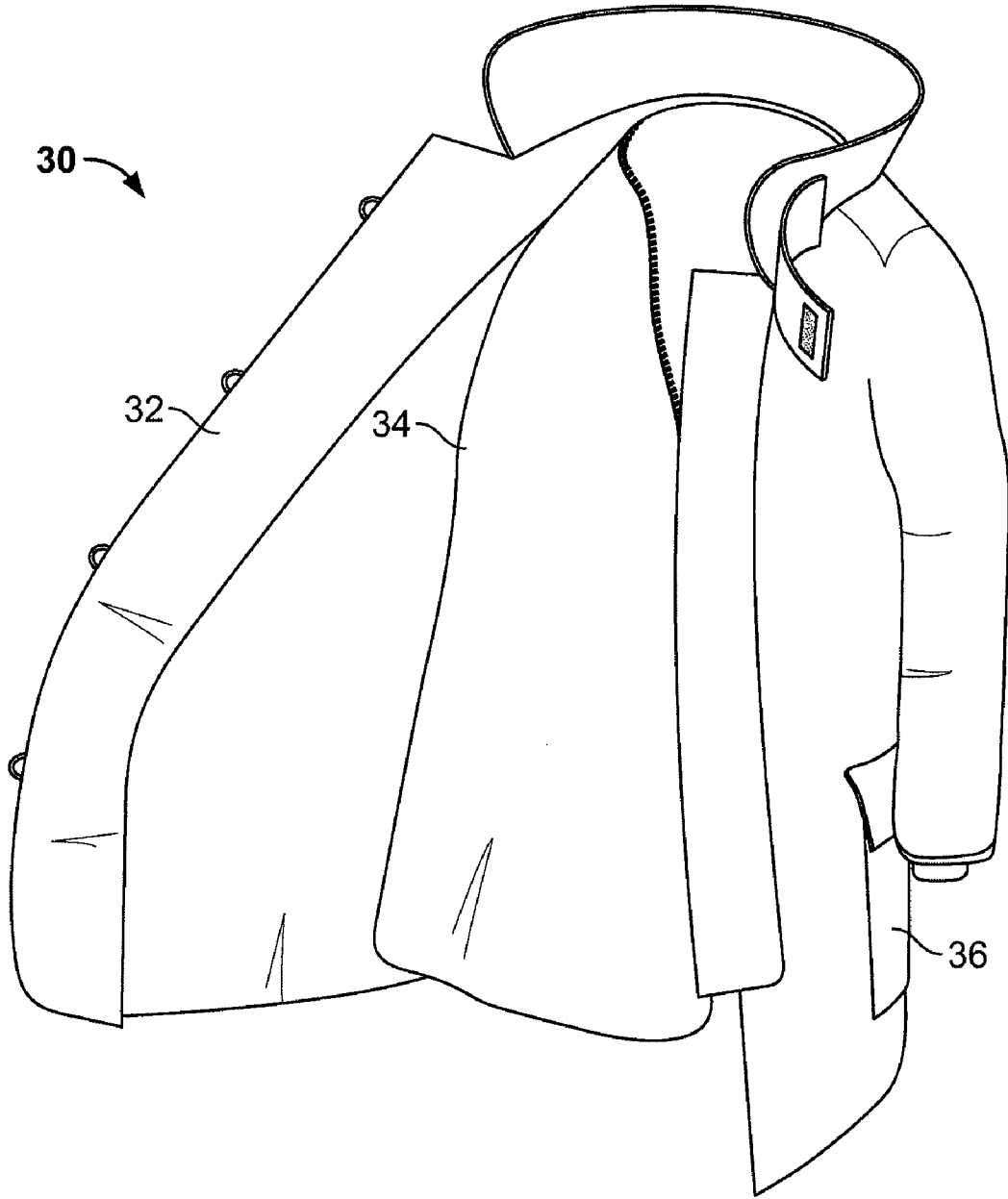


FIG. 3

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.