(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2004/0178544 A1 Jackson et al.

(43) Pub. Date: Sep. 16, 2004

(54) POLYMER TRANSFER APPARATUS, METHODS, AND COMPOSITE WEBS

(76) Inventors: Byron M. Jackson, Forest Lake, MN (US); Randall L. Alberg, Maplewood, MN (US); Dennis L. Becker, Vadnais Heights, MN (US); Roger D. Pavlis, Hudson, WI (US); Leigh E. Wood, Woodbury, MN (US)

> Correspondence Address: **3M INNOVATIVE PROPERTIES COMPANY** PO BOX 33427 ST. PAUL, MN 55133-3427 (US)

10/387,699 (21) Appl. No.:

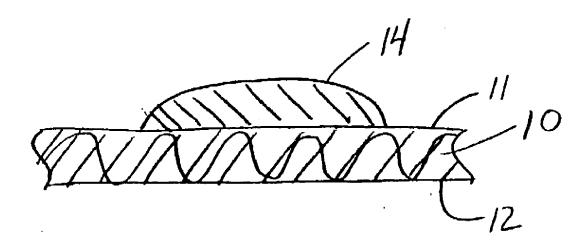
Mar. 13, 2003 (22) Filed:

Publication Classification

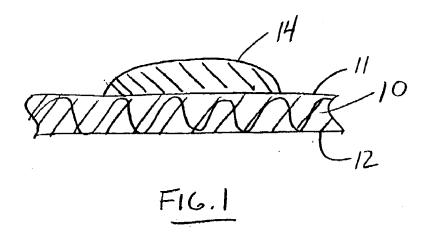
(51) **Int. Cl.**⁷ **B32B** 3/26; B32B 3/06; B32B 27/00; B29C 41/00

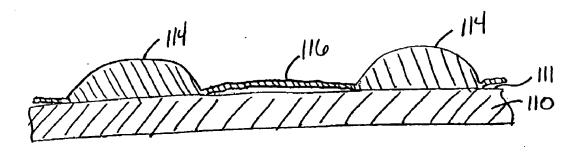
ABSTRACT (57)

Composite webs having one or more polymeric structures located on a substrate, methods of manufacturing the composite webs, and systems for manufacturing the composite webs are disclosed. The polymeric structures are formed using thermoplastic compositions deposited into one or more depressions on a forming tool. The forming tool is maintained at a temperature that is below the melt processing temperature of the thermoplastic composition.

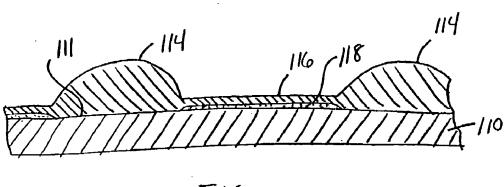




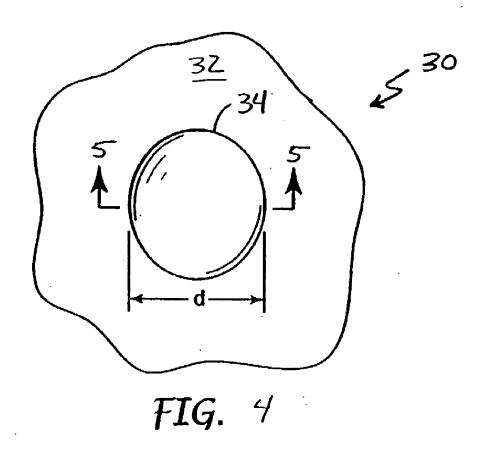


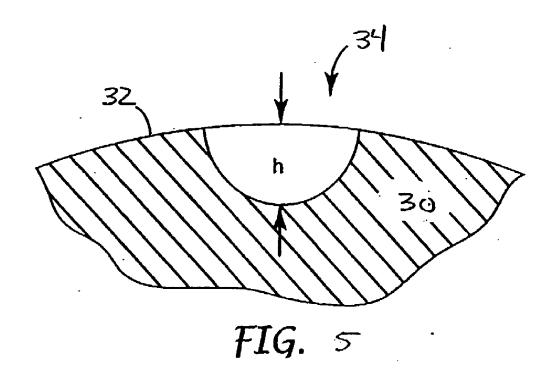


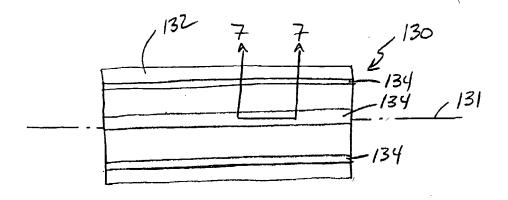
F16.2



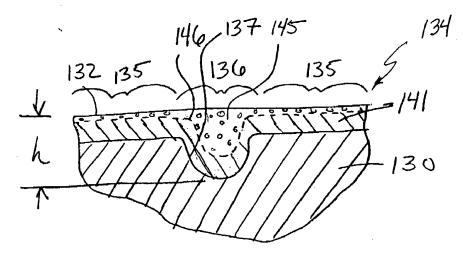
F16.3



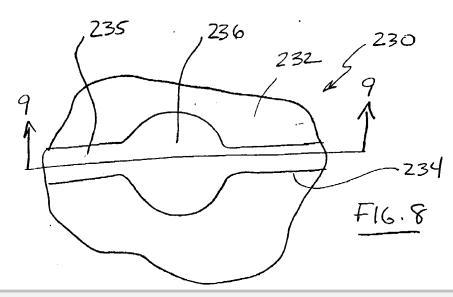




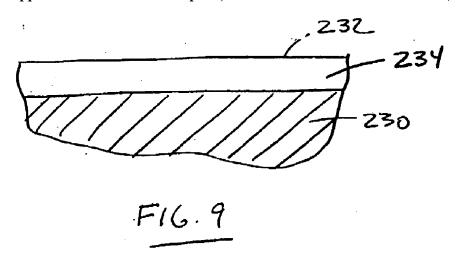
F16.6

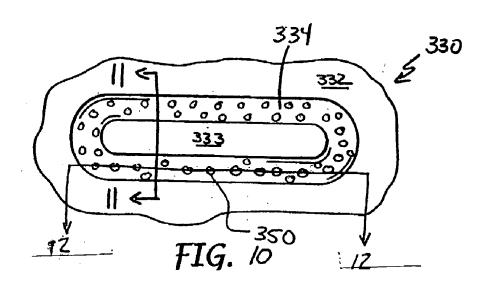


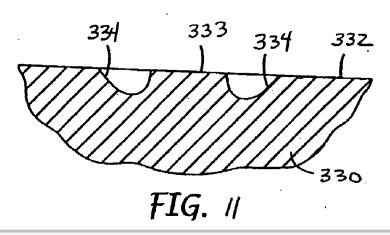
F16.7













DOCKET A L A R M

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.

