

(12) **United States Patent**
Seaton et al.

(10) **Patent No.:** **US 11,399,535 B2**
(45) **Date of Patent:** ***Aug. 2, 2022**

(54) **CAMOUFLAGE MATERIAL, FOR A HUNTING BLIND**

(71) Applicant: **RUGGED CROSS HUNTING BLINDS LLC**, Tampa, FL (US)

(72) Inventors: **Christopher M. Seaton**, Tampa, FL (US); **Timothy R. Seaton**, Tampa, FL (US)

(73) Assignee: **RUGGED CROSS HUNTING BLINDS LLC**, Tampa, FL (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.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **17/345,981**

(22) Filed: **Jun. 11, 2021**

(65) **Prior Publication Data**

US 2021/0298288 A1 Sep. 30, 2021

Related U.S. Application Data

(63) Continuation of application No. 16/998,843, filed on Aug. 20, 2020, which is a continuation of application (Continued)

(51) **Int. Cl.**
A01M 31/02 (2006.01)
E04H 15/00 (2006.01)
(Continued)

(52) **U.S. Cl.**
CPC **A01M 31/025** (2013.01); **E04H 15/001** (2013.01); **E04H 15/008** (2013.01);
(Continued)

(58) **Field of Classification Search**
CPC F41H 3/02
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,308,882 A 1/1982 Pusch
4,425,959 A 1/1984 Von Mosshaim
(Continued)

FOREIGN PATENT DOCUMENTS

JP 09321485 A * 12/1997
WO 2017074394 A1 5/2017

OTHER PUBLICATIONS

ECHOD Graphics Vinyl Mesh Printing—Vinyl Mesh Banner 37% Air Flow (<https://web.archive.org/web/20140117/130123/https://www.echodgraphics.com/-/category1.asp?cid=101&iid=12103>) (Year: 2014).

(Continued)

Primary Examiner — David R Dunn

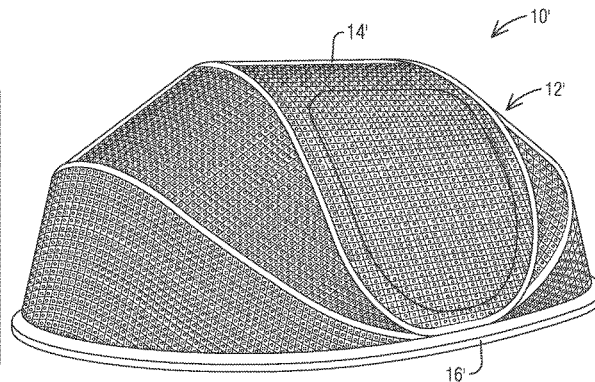
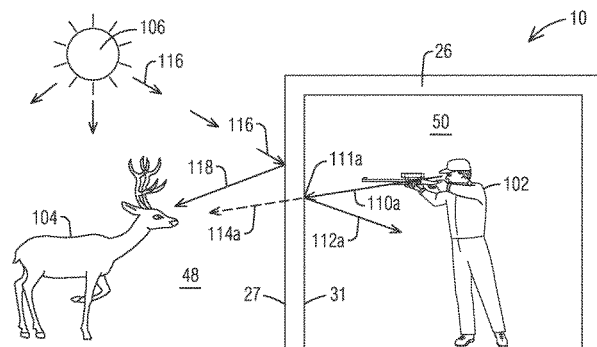
Assistant Examiner — Danielle Jackson

(74) *Attorney, Agent, or Firm* — Robert L. Wolter; Wolter, Van Dyke, Davis, PLLC

(57) **ABSTRACT**

Mesh material is presented for a hunting blind with a camouflage pattern printed on a first side and a second side with a color coating. The mesh material is partially transmissive such that a portion of incident radiation from an exterior of the hunting blind is reflected back into the exterior, a portion of incident radiation from an interior of the hunting blind is transmitted through the mesh material to the exterior and an intensity ratio of the reflected portion to the transmitted portion during daylight conditions is above a threshold value such that the exterior of the hunting blind is visible from the interior and the interior of the hunting blind is not visible from an exterior of the hunting blind. A hunting blind is also provided that includes a frame including frame members and panels of the mesh material attached to the frame members.

19 Claims, 8 Drawing Sheets



Related U.S. Application Data

- No. 15/444,909, filed on Feb. 28, 2017, now Pat. No. 10,765,108.
- (60) Provisional application No. 62/301,007, filed on Feb. 29, 2016.
- (51) **Int. Cl.**
E04H 15/34 (2006.01)
F41H 3/02 (2006.01)
E04H 15/54 (2006.01)
- (52) **U.S. Cl.**
 CPC *E04H 15/34* (2013.01); *E04H 15/54* (2013.01); *F41H 3/02* (2013.01)

7,568,492	B1	8/2009	Helmer	
9,163,451	B1	10/2015	Curry	
2003/0096546	A1	5/2003	Strength et al.	
2003/0207629	A1	11/2003	Sobieski et al.	
2005/0048230	A1	3/2005	Dalvey et al.	
2007/0006909	A1	1/2007	Lewis	
2008/0005987	A1*	1/2008	Meadows E06B 9/52 52/311.1
2008/0006375	A1*	1/2008	Meadows E06B 9/52 160/371
2008/0083443	A1	4/2008	Eastman	
2009/0277094	A1	11/2009	Ward	
2010/0031423	A1	2/2010	Cincotti et al.	
2010/0232029	A1	9/2010	Lewis et al.	
2012/0128890	A1	5/2012	Mirchev	
2017/0156340	A1	6/2017	Toreki et al.	
2017/0245491	A1	8/2017	Seaton et al.	

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,443,516	A	4/1984	Rogers
5,261,978	A	11/1993	Reynolds
5,565,265	A	10/1996	Rubin et al.
5,842,495	A	12/1998	Egnew
6,004,649	A	12/1999	Nagata
6,009,673	A	1/2000	Adams
6,734,125	B2	5/2004	Veiga
6,919,130	B2	7/2005	Tokarsky et al.
6,942,065	B1	9/2005	Price
7,040,333	B1	5/2006	Ransom
7,081,324	B1	7/2006	Hare et al.
7,427,433	B2	9/2008	Li et al.
7,565,909	B2	7/2009	Reis et al.

OTHER PUBLICATIONS

Akovali, *Advances in Polymer Coated Textiles*, 2012, Smithers Rapra Technology Ltd, UK.

Singha, *A Review on Coating & Lamination in Textiles: Processes and Applications*, American Journal of Polymer Science, 2012, 39-49, 2(3), Scientific & Academic Publishing Co., Rosemead, CA, USA.

Chilton, *Tensile structures—textiles for architecture and design*, Textiles, Polymers and Composites for Buildings, Woodhead Publishing Series in Textiles: No. 95, 2010, 229-257, Woodhead Publishing Limited, UK.

Saatifil Polyester Technical Data Sheet, SAATI S.p.A, Italy.

* cited by examiner

FIG. 1A

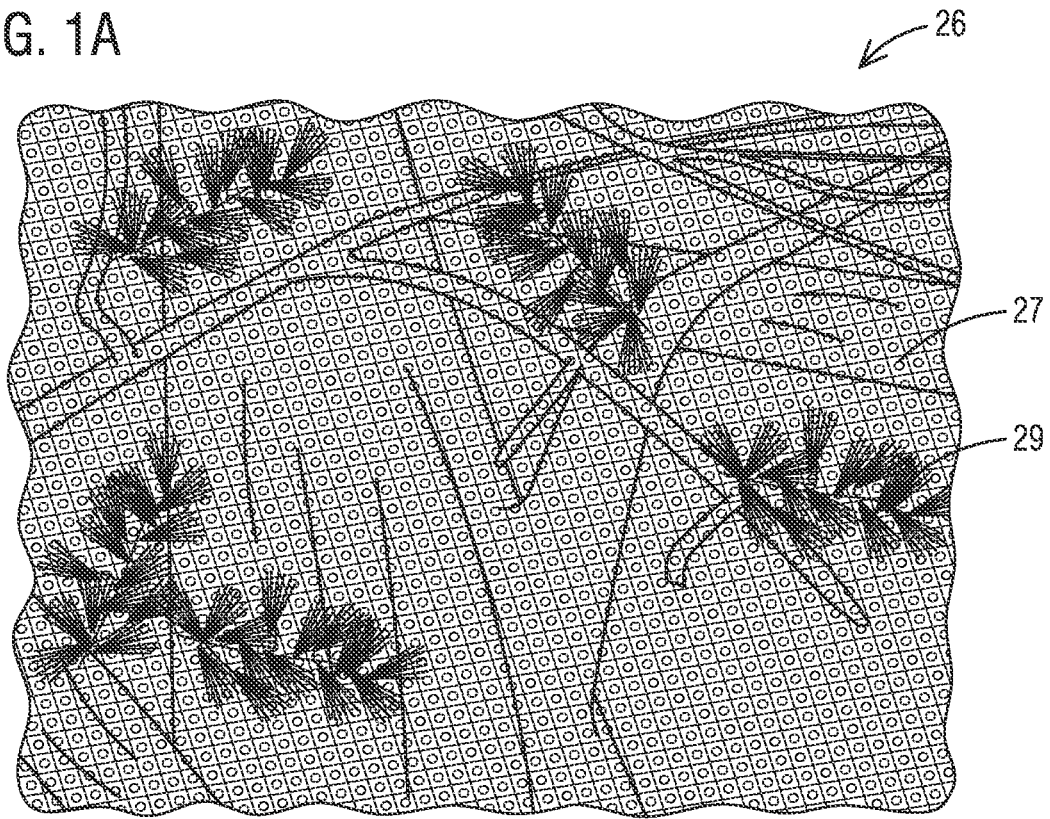


FIG. 1B

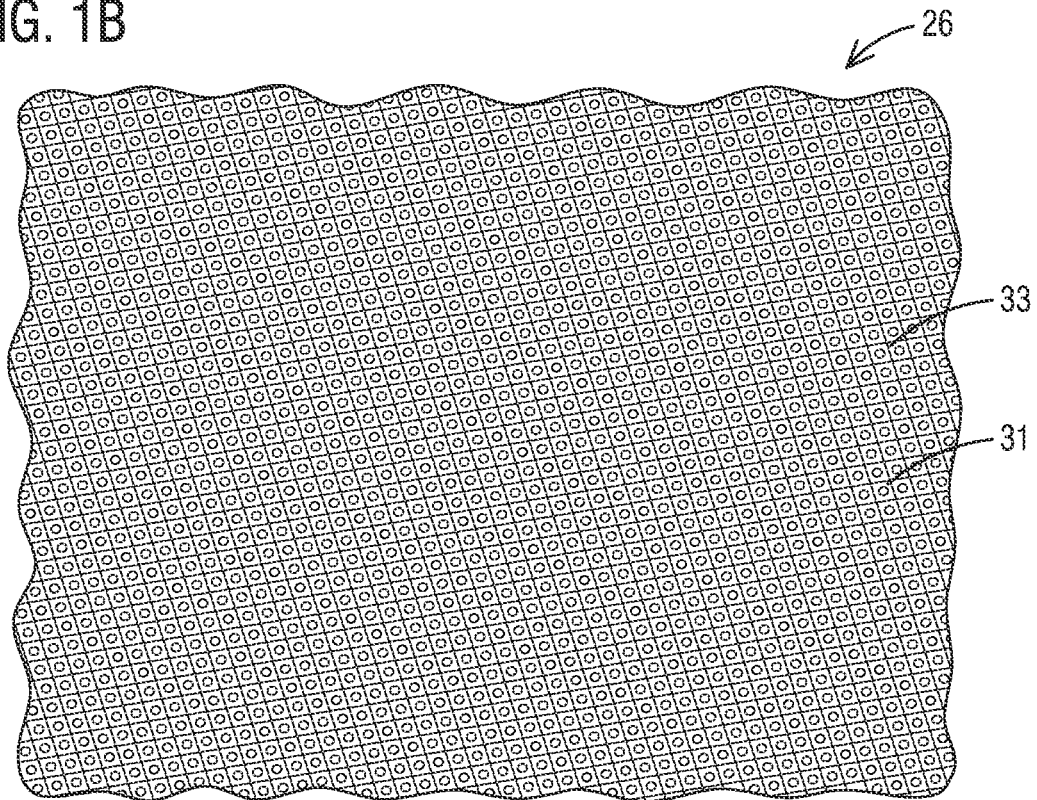


FIG. 1C

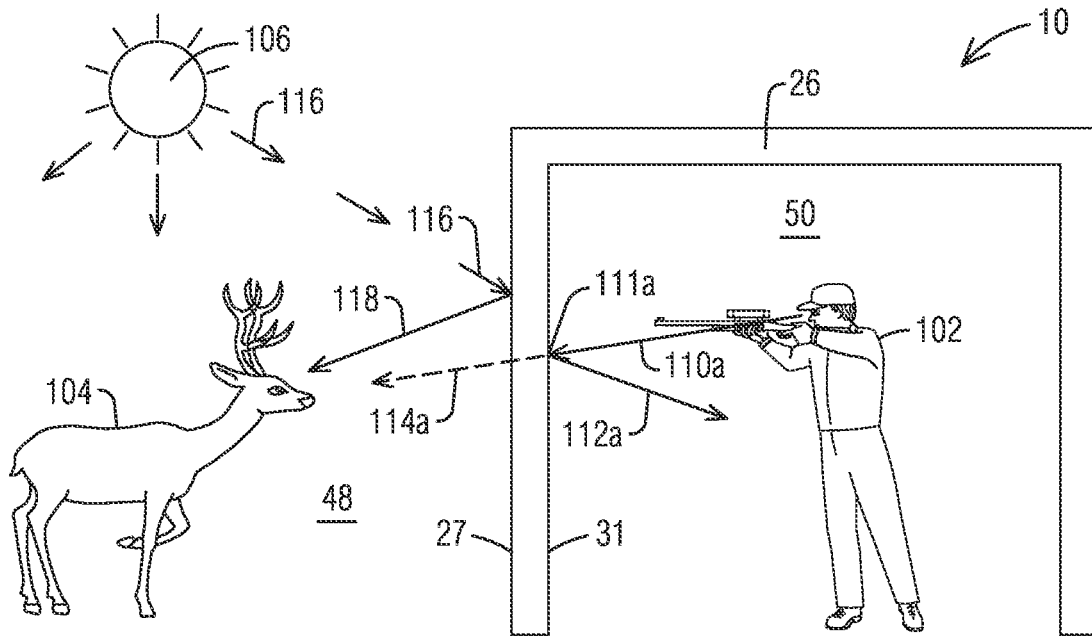


FIG. 1D

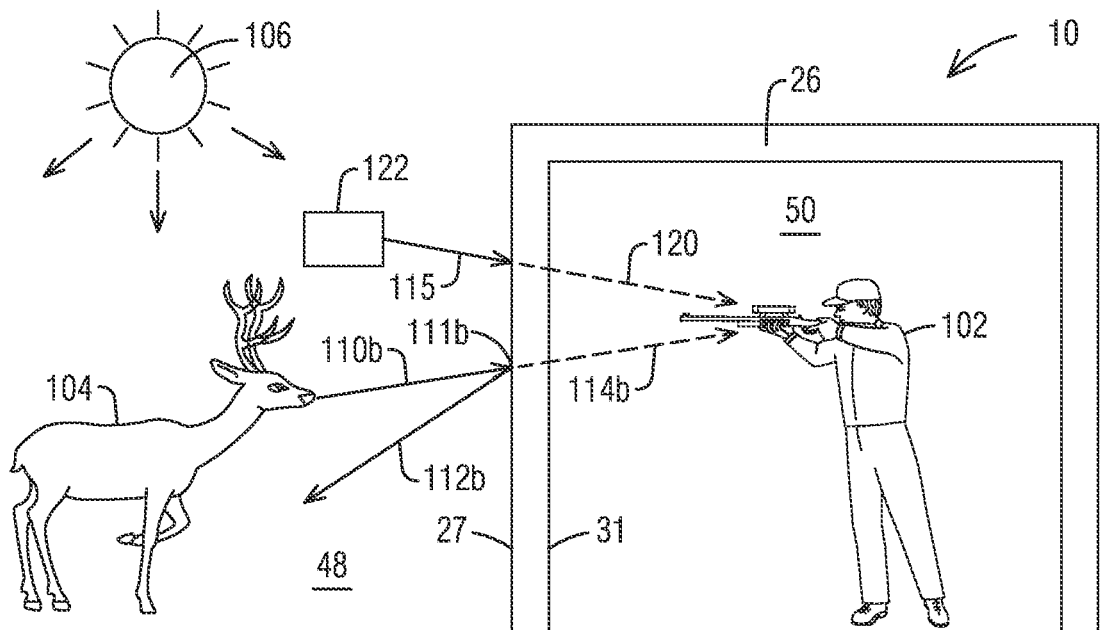
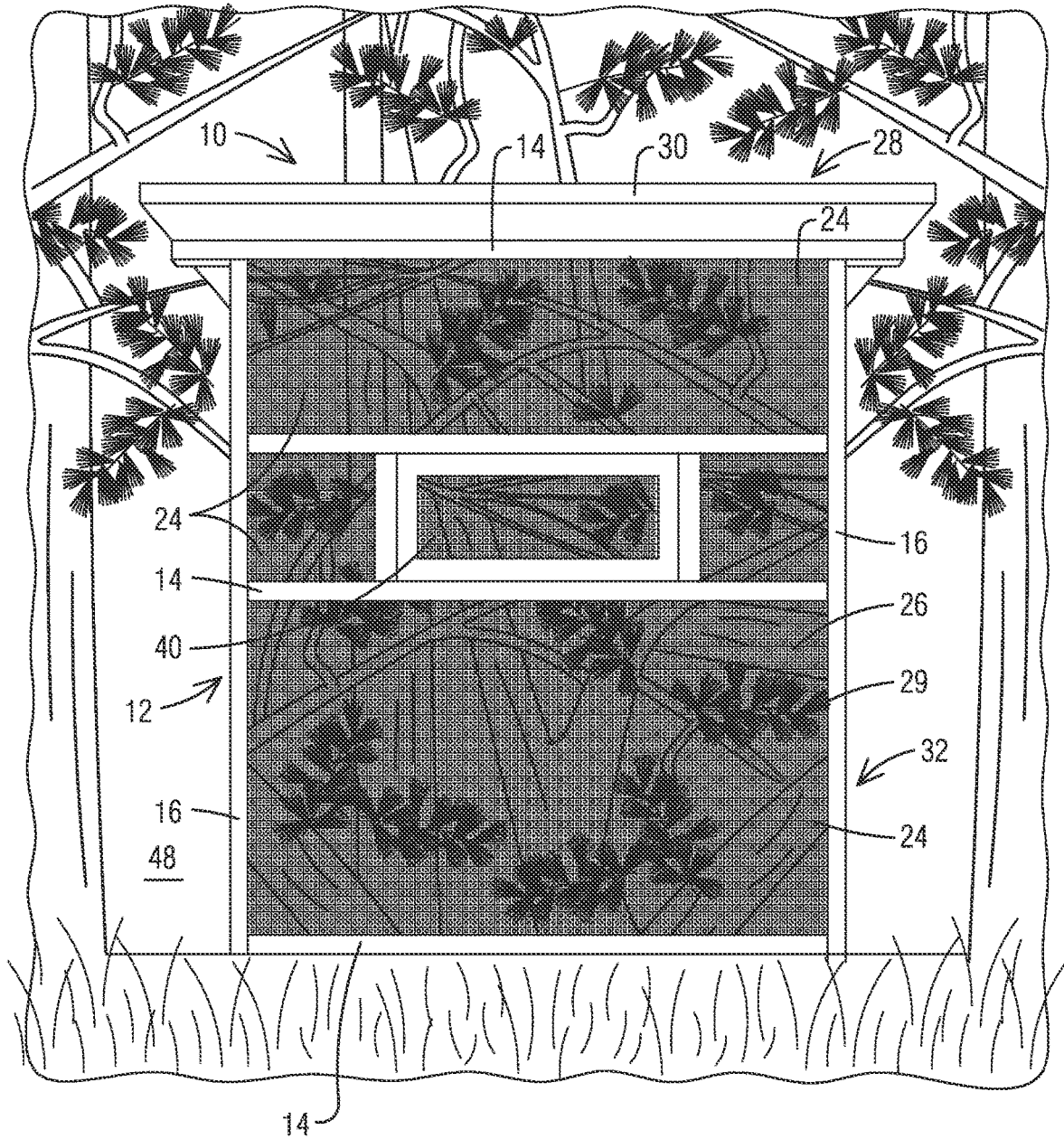


FIG. 2



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.