

The  
United  
States  
of  
America



The Director of the United States  
Patent and Trademark Office

*Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.*

*Therefore, this*

**United States Patent**

*Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, or importing into the United States of America, products made by that process, for the term set forth in 35 U.S.C. 154(a)(2) or (c)(1), subject to the payment of maintenance fees as provided by 35 U.S.C. 41(b). See the Maintenance Fee Notice on the inside of the cover.*

*Andrei Iancu*

*Director of the United States Patent and Trademark Office*



US009913518B2

(12) **United States Patent**  
**Su**

(10) **Patent No.:** **US 9,913,518 B2**

(45) **Date of Patent:** **Mar. 13, 2018**

(54) **INNER LINING AND WATERPROOF BAG HAVING SAME**

(71) Applicant: **Jung-Yuan Su**, Taipei (TW)

(72) Inventor: **Jung-Yuan Su**, Taipei (TW)

(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 130 days.

(21) Appl. No.: **14/970,272**

(22) Filed: **Dec. 15, 2015**

(65) **Prior Publication Data**

US 2016/0316876 A1 Nov. 3, 2016

(30) **Foreign Application Priority Data**

Apr. 28, 2015 (TW) ..... 104206473 U

(51) **Int. Cl.**

**A45C 1/02** (2006.01)  
**A45C 13/02** (2006.01)  
**A45F 3/04** (2006.01)  
**A45C 3/00** (2006.01)  
**A45C 13/00** (2006.01)  
**A45C 3/06** (2006.01)  
**A45C 13/30** (2006.01)

(52) **U.S. Cl.**

CPC ..... **A45C 13/02** (2013.01); **A45C 3/001** (2013.01); **A45C 3/06** (2013.01); **A45C 13/008** (2013.01); **A45C 13/30** (2013.01); **A45F 3/04** (2013.01)

(58) **Field of Classification Search**

CPC .. **A45C 3/06**; **A45C 13/26**; **A45C 3/00**; **A45C 13/18**; **A45C 9/00**  
USPC ..... **150/110**, **107**, **100**, **18 A**; **206/579**, **548**, **206/581**, **8**; **383/108**, **112**, **121**  
See application file for complete search history.

(56)

**References Cited**

**U.S. PATENT DOCUMENTS**

1,827,111 A \* 10/1931 Rowe ..... B65D 31/16  
217/3 CB  
1,853,013 A \* 4/1932 Brady ..... B65D 29/00  
383/117  
1,935,612 A \* 11/1933 Brady ..... B65D 29/02  
383/108  
3,197,119 A \* 7/1965 Hartig ..... B65D 31/147  
383/116

(Continued)

**FOREIGN PATENT DOCUMENTS**

JP 2009183849 A 8/2009  
KR 1020060000475 1/2006

(Continued)

*Primary Examiner* — Fenn C Mathew

*Assistant Examiner* — Cynthia Collado

(74) *Attorney, Agent, or Firm* — Ming Chow; Sinorica, LLC

(57)

**ABSTRACT**

Provided is an inner lining for backpacks or handbags. The inner lining has a receiving space constructed by folding and stitching at least one waterproof fabric. Multiple seam lines on the inner lining are covered by waterproof tapes. The inner lining may prevent the rainwater permeating into the receiving space through the seam lines. Items may be protected from the wet in the receiving space of the inner lining. Further provided is a waterproof bag having the inner lining. The inner lining is sewed in an outer bag to construct the waterproof bag. Multiple seam lines between the outer bag and the inner lining are also covered by waterproof tapes. The inner lining and the waterproof bag having the inner lining provide more convenience and safety for users in rainy days.

**4 Claims, 4 Drawing Sheets**

