

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2022/0386474 A1 **VARJOS**

Dec. 1, 2022 (43) **Pub. Date:**

(54) LAYERED DEVICE FOR PRESSURE TREATMENT AND METHOD

- (71) Applicant: Canatu Oy, Vantaa (FI)
- (72) Inventor: Ilkka VARJOS, Espoo (FI)
- (73) Assignee: Canatu Oy, Vantaa (FI)
- (21) Appl. No.: 17/642,865
- (22) PCT Filed: Sep. 23, 2020
- (86) PCT No.: PCT/FI2020/050619

§ 371 (c)(1),

(2) Date: Mar. 14, 2022

(30)Foreign Application Priority Data

Sep. 23, 2019 (FI) 20195798

Publication Classification

(51)	Int. Cl.	
	H05K 3/22	(2006.01)
	H05K 1/03	(2006.01)
	H05K 1/02	(2006.01)
	H05K 3/20	(2006.01)
	G06F 3/041	(2006.01)
	B32B 7/12	(2006.01)
	B32B 27/08	(2006.01)
	B32B 27/36	(2006.01)
	B32B 27/30	(2006.01)

B32B 27/32	(2006.01)
B32B 27/28	(2006.01)
B32B 37/10	(2006.01)
B32B 38/00	(2006.01)

(52) U.S. Cl.

CPC H05K 3/22 (2013.01); H05K 1/0313 (2013.01); H05K 1/0298 (2013.01); H05K 3/20 (2013.01); G06F 3/041 (2013.01); B32B 7/12 (2013.01); B32B 27/08 (2013.01); B32B 27/36 (2013.01); B32B 27/365 (2013.01); B32B 27/308 (2013.01); B32B 27/325 (2013.01); **B32B 27/304** (2013.01); **B32B** 27/281 (2013.01); B32B 27/32 (2013.01); B32B 37/1018 (2013.01); B32B 38/0004 (2013.01); B32B 38/145 (2013.01); H05K 2203/1105 (2013.01); H05K 2203/1121 $(2013.01);\ G06F\ 2203/04103\ (2013.01);\ B32B$ 2270/00 (2013.01); B32B 2250/24 (2013.01); B32B 27/38 (2013.01)

(57)ABSTRACT

A layered device having two base films, a conductive pattern attached to the first base film facing the second base film and a bonding layer binding the first base film and the second base film together. The bonding layer includes an opening, and the conductive pattern having an exposed portion aligned with the opening in the bonding layer. Further disclosed is a spacer attached to the first base film and the exposed portion of the conductive pattern, wherein the spacer fills at least part of the space created by the opening in the bonding layer. Also disclosed is a method of producing a layered device.

