



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 21 92 16 46

Classification of the application (IPC):  
**B32B 27/32**

Technical fields searched (IPC):  
B32B

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X A	DE 102019127827 A1 (REIFENHÄUSER GMBH & CO KG MASCHF [DE]) 27 August 2020 (2020-08-27) * paragraph [0047] * * claims 1-58 * * paragraph [0027] * * paragraph [0053] - paragraph [0054] * * paragraph [0115] - paragraph [0117] * * paragraph [0107] *	1, 8 2
A	WO 2004054801 A1 (AHLSTROM WINDSOR LOCKS LLC [US]; DHARMADHIKARY RAHUL K [US] ET AL.) 01 July 2004 (2004-07-01) * claims 1, 6, 7 *	2
A	US 2021061539 A1 (GABRIEL MICHAEL J [US]) 04 March 2021 (2021-03-04) * paragraph [0034] * * paragraph [0023] - paragraph [0024] * * paragraph [0026] *	2

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 24 August 2023	Examiner Weiss, Felix
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### CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

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### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1, 2, 8

composite carrier bag material consisting of oriented polypropylene (OPP) in the 1st layer, up to 100% recycled (scrap) and extruded PP Material in the 2nd layer, and a PP Nonwoven (3) in the 3rd layer

2. claims: 1, 3

composite carrier bag material with LLDPE in the 1st layer, up to 100% recycled LDPE in the 2nd layer, and LDPE in the 3rd layer

3. claims: 1, 4

composite carrier bag material with HDPE in the 1st layer, up to 100% recycled HDPE in the 2nd layer, and HDPE in the 3rd layer

4. claims: 1, 5

composite material consisting of a nonwoven material in a 1st layer, up to 100% recycled and extruded material in between, and nonwoven material again in a 3rd layer

5. claims: 1, 6

composite bag material consisting of a paper in the 1st layer, up to 100% recycled (scrap) PP (2) in the 2nd layer, and the PP Nonwoven (3) in the 3rd layer

6. claims: 1, 7

composite carrier bag material consisting of an OPP Film in the 1st layer, up to 100% recycled and extruded PP Material in a 2nd layer, a PP Net in a 3rd layer, and a PP Nonwoven (3) in a 4th layer.

7. claims: 1, 9

composite carrier bag material consisting of an OPP film in one of its layers, up to 100% recycled and extruded PE in another layer, and a PP nonwoven in another layer.

None of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the first mentioned in the claims, namely claims: 1, 2, 8

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 24 August 2023	Examiner Weiss, Felix
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## ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 21 92 16 46

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 24-08-2023  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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			EP 1572450 A1	14-09-2005
			JP 4409442 B2	03-02-2010
			JP 2006509660 A	23-03-2006
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			WO 2004054801 A1	01-07-2004
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			BR 112022003804 A2	24-05-2022
			CA 3089341 A1	26-02-2021
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			WO 2021041157 A1	04-03-2021