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(54) MOLDED PLASTIC STACKABLE SHIPPING STRUCTURE FOR EV BATTERY PACKS

(57) A molded plastic shipping structure which can be used for EV battery packs wherein the structure is provided with corner posts that allow for stacking loaded

structures in aligned configurations and unloaded/empty structures to be stacked in a staggered, lower volume configuration.

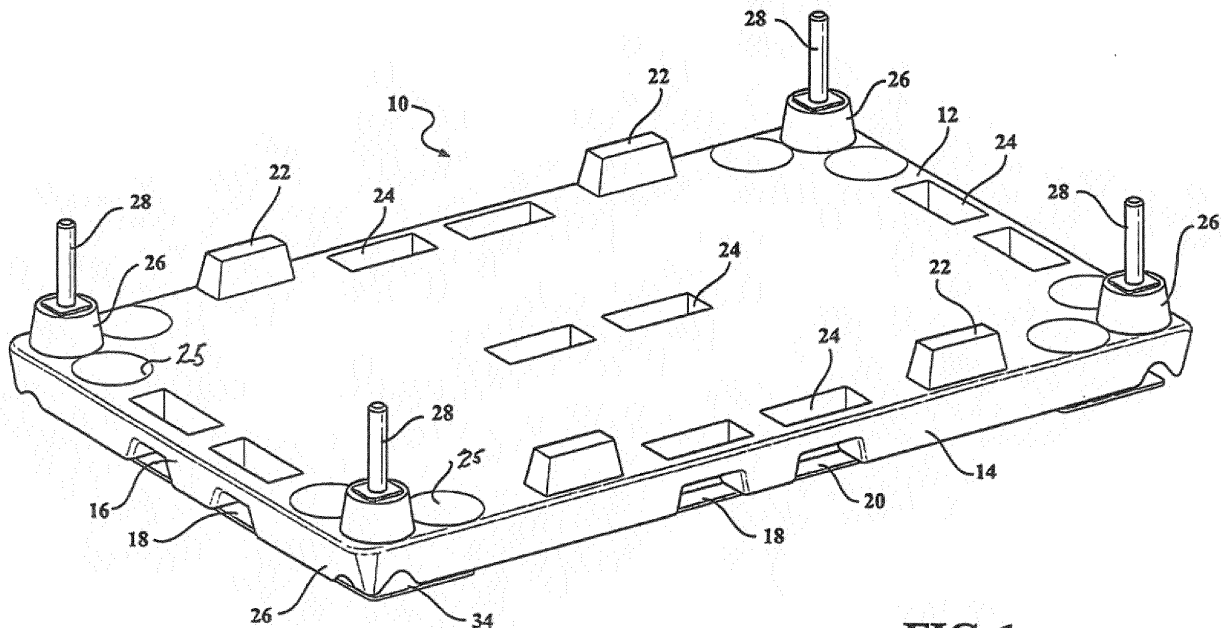


FIG. 1

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EUROPEAN SEARCH REPORT

Application Number
EP 24 18 2996

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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A	-----	3-5,8	
Y	US 5 400 904 A (MASTON III ROY E [US] ET AL) 28 March 1995 (1995-03-28) * column 5, line 45 - column 8, line 7; figures 1-6 *	1,2,7	TECHNICAL FIELDS SEARCHED (IPC) B65D
A	-----	8	
Y	EP 2 687 454 A1 (ALWA GMBH & CO KG KONSTRUKTION & FORMENBAU [DE]) 22 January 2014 (2014-01-22) * paragraphs [0015], [0017]; figures 1, 2a *	1,2,7	
A	-----	1-8	
A	EP 2 886 482 A1 (ALWA GMBH & CO KG KONSTRUKTION & FORMENBAU [DE]) 24 June 2015 (2015-06-24) * paragraphs [0023], [0028], [0029]; figures 1-3b *		

-The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 12 December 2024	Examiner Grondin, David
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

EPO FORM 1503 03.82 (P04C01)



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

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Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

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No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

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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:

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see sheet B

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All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

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As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

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Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

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

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The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



LACK OF UNITY OF INVENTION
SHEET B

Application Number

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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:

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1. claims: 1-8

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A returnable cargo-bearing shipping structure comprising a body made of durable plastic having a cargo bed surface, a plurality of posts having top ends; said posts being attached peripherally to the body and extending upwardly from the cargo bed surface, the posts having exposed bottom features underlying the cargo bed surface with sockets located to receive therein the top ends of posts from an underlying and aligned second said cargo-bearing structure whereby multiples of said cargo-bearing structures can be stacked in an aligned and vertically spaced configuration.

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2. claims: 9, 10

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A returnable pallet type shipping structure comprising a molded plastic body defining a cargo bed surface with a plurality of spaced and upwardly extending peripheral structures integral with said body, a plurality of metal posts mounted in said raised structures and extending above said cargo bed, means for interconnecting two or more of said bodies in aligned and vertically spaced relationship, and, alternatively, in a non-aligned and mutually contacting relationship.

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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5 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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

12 - 12 - 2024

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EP 2687454 A1	22 - 01 - 2014	NONE	

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EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82