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(54) **A glass door and hinge structure.**

(57) The invention relates to a glass door intended for use in refrigeration and freezing spaces, comprising two or more panes (2, 3), of which the outermost pane (2), facing away from the refrigeration and freezing space, is heated by means of an electrically conductive layer (4) on the inside of the pane, there being installed between the panes an intermediate trim (5), and which panes are at their edges surrounded by a plastic U-profile strip (6), and a light-

metal frame (1) to which there is attached a tightening strip (7) which is of hard plastic and which, together with the light-metal profile (1), forms a U-shaped inner surface against which the U-profile strip (6) bears.

The invention also relates to a hinge structure specifically for a door intended for use in refrigeration and freezing spaces.

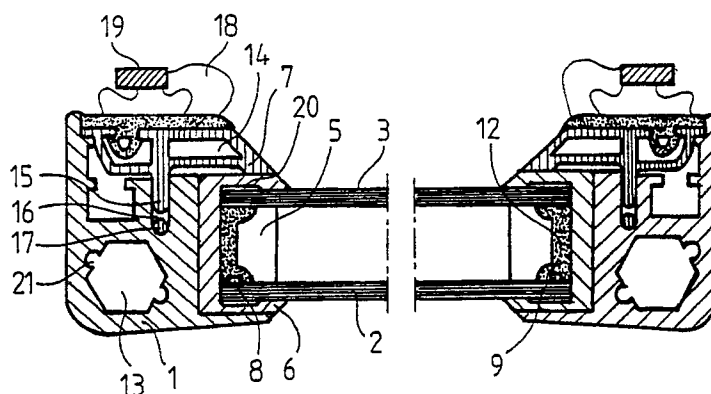


Fig. 2

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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 (Int. Cl. 4)
Y	US-A-4 127 765 (HEANEY) * Column 1, lines 11-35; column 3, lines 1-37; figures 1-3 *	1,5,7,8	A 47 F 3/04 H 05 B 3/26 E 05 F 1/12 E 06 B 3/26
A	--	2	
Y	US-A-4 496 201 (ALLGEYER) * Column 2, lines 25-68; column 3, lines 25-30; figures 2,3 *	1,5,7,8	
A	US-A-3 524 920 (STROMQUIST et al.) * Column 1, lines 35-43; column 2, lines 41-64; column 3, lines 1-2; figures 2,3 *	1,2	
A	US-A-4 029 942 (LEVIN) * Claim 1; figures 1,2 *	1,2	TECHNICAL FIELDS SEARCHED (Int. Cl. 4) A 47 F F 25 D H 05 B E 06 B
A	US-A-4 149 348 (PYZEWSKI) * Column 2, line 63 - column 3, line 5; column 3, lines 17-27; figure 2 *	1,4	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18-04-1990	Examiner BROMAN
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	



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid.
- namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

☒ LACK OF UNITY OF INVENTION

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

namely:

1. Claims 1-8: Build-up of multiple glass panes, which are electrically heated by a conductive layer.
2. Claims 9-14: Hinge structure for a door.

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ 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:
- ☒ None of the further search fees has 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: 1-8



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. ⁴)
A	US-A-3 499 245 (WINSLER et al.) --		
A	US-A-3 348 349 (PETERSEN) --		
A	US-A-3 418 755 (DI CHIARO) --		
A	GB-A-1 301 651 (MULTIGLASS) --		
A	FR-A-2 073 465 (KÄSSBOHRER) ----		
			TECHNICAL FIELDS SEARCHED (Int. Cl. ⁴)
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
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	