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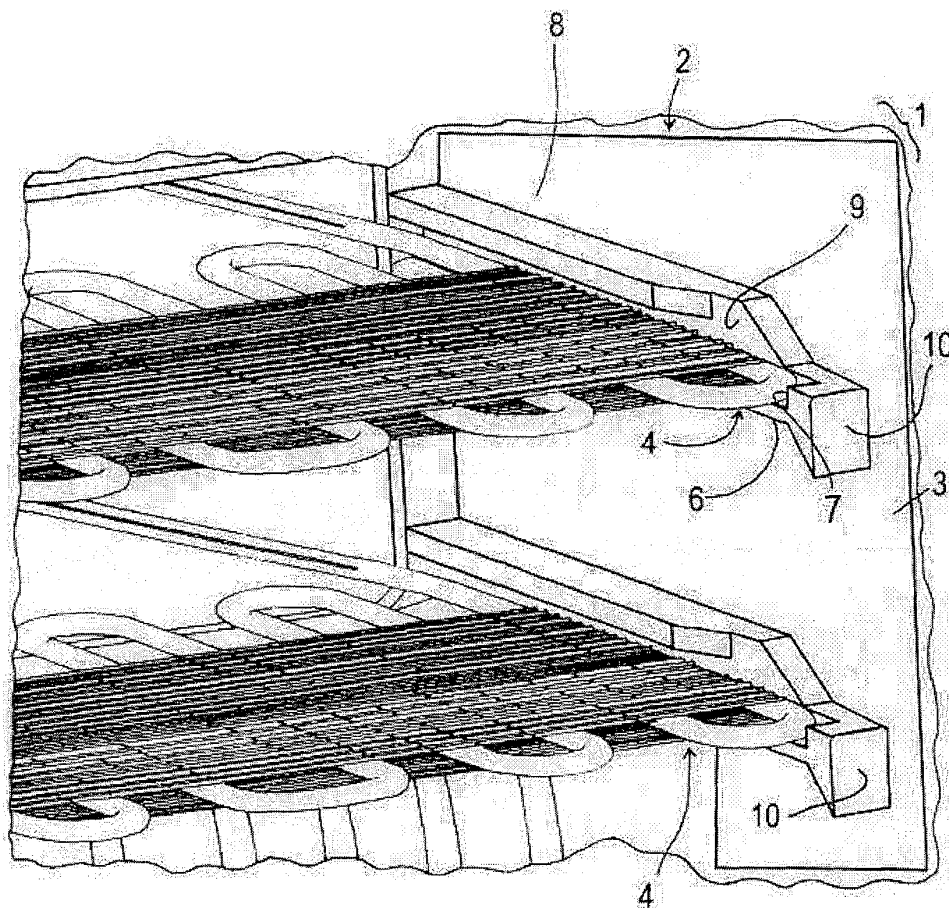
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(54) **Support for refrigeration grilles**

(57) A support for refrigeration grilles, for example for drawer freezers and similar appliances, consisting of

horizontal bar-like conformations (6) directly provided in the side walls (3) of the preservation compartment.



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Description

[0001] The present invention relates to the support for horizontal refrigeration grilles, i.e. evaporator grilles used for example in drawer freezers.

[0002] In drawer freezers, each drawer is known to be nearly in contact with a section of the evaporator. The section consists of a hairpin coil, the loops of which are joined together by a plurality of metal rods or bars located at both the top and bottom of the loops. This section is known colloquially as a "grille". The grilles are currently supported on inserted supports (separate parts) fixed to the side walls of the freezer preservation compartment.

[0003] The use of these supports involves costs relative to the supports themselves, costs for their assembly and the cost of accessories such as screws or the like.

[0004] The invention remedies this situation by using supports represented by parts formed directly in the side walls of the internal thermoformed enclosure of the freezer preservation compartment.

[0005] The supports are formed simultaneously with the vacuum forming of said internal enclosure.

[0006] The supports are substantially formed on a horizontal bar-like part on which the grille rests, i.e. towards the opening of the compartment the bar-like part presents a projection acting as an abutment to prevent extraction of the grille. A second bar-like part is present parallel to the first, but of smaller length, to act as a support for the preservation drawer and define with the first a mouth for the insertion of the grille therebetween during mounting. The abutment can also extend below the plane of the bar-like part on which the grille rests to act as a stop to limit the extraction travel of the drawer.

[0007] The invention will be more apparent from the ensuing detailed description provided by way of example with reference to the accompanying drawing which shows a perspective partial view of the preservation compartment of a drawer freezer and two relative grilles and relative supports.

[0008] With reference to the figure, the reference numeral 1 indicates overall a drawer freezer showing its preservation compartment. The preservation compartment is bounded by an inner enclosure 2 obtained by vacuum thermoforming. The inner enclosure presents two parallel side walls (only one is visible in the drawing) in which, during the same forming stage as the internal enclosure, lateral guides are formed for the support and retention of grilles positioned at different heights and indicated by 4.

[0009] The guides are indicated overall by 5 and comprise a horizontal bar-like part 6 on which the grille 4 rests. At its front this bar-like part 6 terminates with an abutment 7 preventing involuntary extraction of the grille. Advantageously this abutment can extend downwards with a projecting part 10 for limiting the extraction travel of a drawer, not shown.

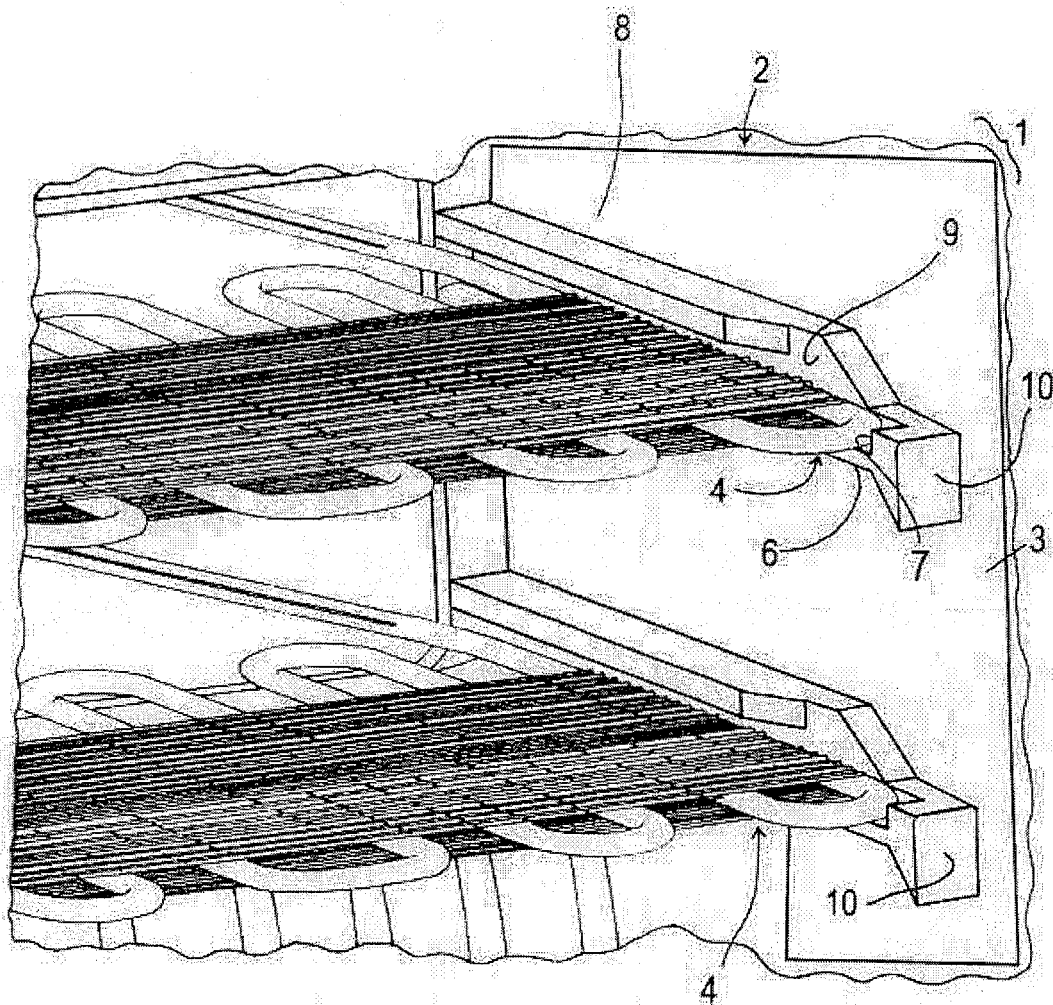
[0010] The guides are completed by a further horizontal bar-like part 8 for the support and sliding of the over-

lying drawer. This further bar-like part 8 is parallel to the first 4, it is of lesser length and forms with the first a channel into which to insert the grille. The insertion operation is facilitated by the lesser axial length of the further bar-like part 8 which leaves between the two bar-like parts a mouth adequate for the installation of the grille by a mixed rotational and axial movement.

[0011] A preferred embodiment of the invention has been illustrated, however others can be conceived without deviating from the same inventive concept.

Claims

1. A support for refrigeration grilles, for example for drawer freezers and similar appliances, **characterised by** consisting of horizontal bar-like conformations (6) directly provided in the side walls (3) of the preservation compartment.
2. A support as claimed in claim 1, wherein the bar-like conformations (6) terminate at their front with an abutment (7).
3. A support as claimed in the preceding claims, wherein the abutment (7) extends downwards (at 10) to act as a limit stop for the drawer.
4. A support as claimed in the preceding claims, wherein other horizontal bar-like conformations (8) of lesser length are provided defining with the first (4) a mouth (9) enabling the grille to undergo its insertion movement.





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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			F25D
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 18 October 2005	Examiner Zanotti, L
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			

**ANNEX TO THE EUROPEAN SEARCH REPORT
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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
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