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(54) **Refrigerator or freezer cabinet with a wire shelf.**

(57) A wire shelf (14) for a refrigerator or freezer cabinet shows a front transverse wire (22), a rear transverse wire (16) and longitudinal wires (24) connecting the transverse wires, which shelf with two opposite edges is intended to be pushed in and rest in grooves (10, 11) in inner side walls (12) of the cabinet. At at least one of the edges one end (18) of the rear wire (16) rests in a pit (20) in the groove (10) and one end (26) of the front wire (22), shows an extension (28) pointing backwards in the groove (10) and by elasticity in the longitudinal wires (24) constantly is pressed against the roof of the groove or is at least pressed against the roof of the groove, when the end (18) of the rear wire moves out of the pit (20) when the shelf is taken out.

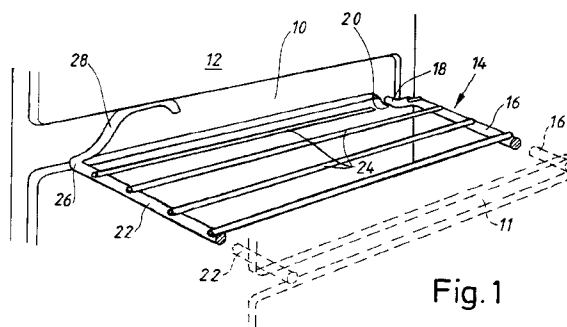


Fig. 1

The invention refers to a refrigerator or freezer cabinet with a wire shelf showing a front transverse wire, a rear transverse wire and longitudinal wires connecting the transverse wires, which shelf with two opposite edges is intended to be pushed in and rest in grooves in opposite inner side walls of the cabinet.

At a known such cabinet there is nothing preventing the shelf from sliding out of the groove if the cabinet is tipped forwards, why the shelf must be fastened with tape in the cabinet, so that the shelf during handling of the cabinet, e.g. on delivery from the factory, shall not damage the door of the cabinet.

The object of the invention is to improve the known cabinet such that the shelf remains in the groove even if the cabinet would be tipped.

This object is obtained through the cabinet according to the invention thereby that at least one of the edges the end of the rear wire rests in a pit in the groove and the end of the front wire, which rests against the bottom of the pit, shows an extension pointing backwards in the groove and by elasticity in the longitudinal wires constantly is pressed against the roof of the groove or is at least pressed against the roof of the groove, when the end of the rear wire moves out of the pit when the shelf is taken out.

An embodiment of a cabinet with a wire shelf according to the invention is described below in connexion with the attached drawing, in which Fig. 1 in a perspective view shows the edges of the shelf in grooves in the side walls of the cabinet, Fig. 2 shows one of the grooves from the side with the shelf locked in a pit in the groove, and Fig. 3 shows the shelf on the way to be taken out of or inserted into the groove.

By 10 is designated a horizontal groove in an inner side wall 12 of a refrigerator cabinet. A wire shelf 14 is pushed into the groove 10. The shelf 14 shows a rear transverse wire 16, the end 18 of which resting against the bottom of a pit 20 in the groove at its rear end, and a front transverse wire 22, which rests with its end 26 against the bottom of the groove. On the wires 16 and 22, which are of steel, longitudinal wires 24 are welded. The end 26 of the wire 22 is extended by an arm 28, which bears on the roof 30 of the groove at 32 and keeps the ends 18 and 26 pressed against the bottom of the pit and the groove respectively. When the shelf shall be taken out one can for instance by one hand press up the shelf at 34 against the action of spring force in the wires 24, which then will bend (Fig.3), so that the end 18 comes up from the pit 20, and then by the other hand pull out the shelf.

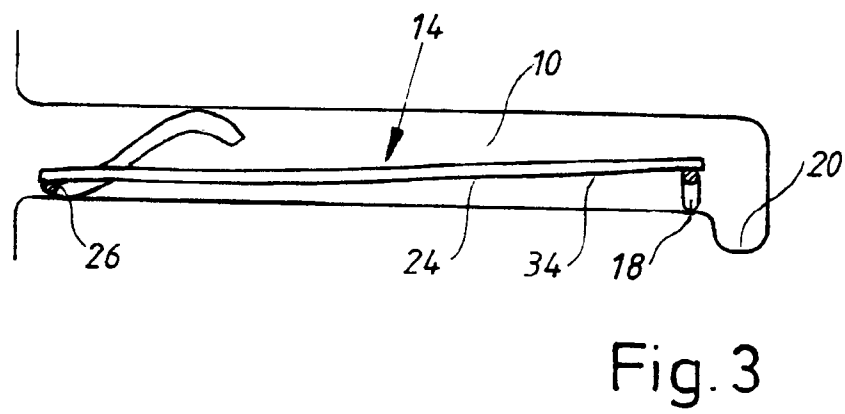
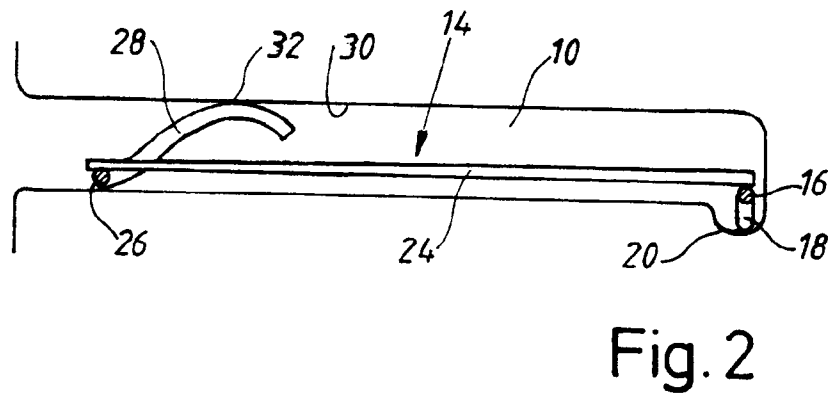
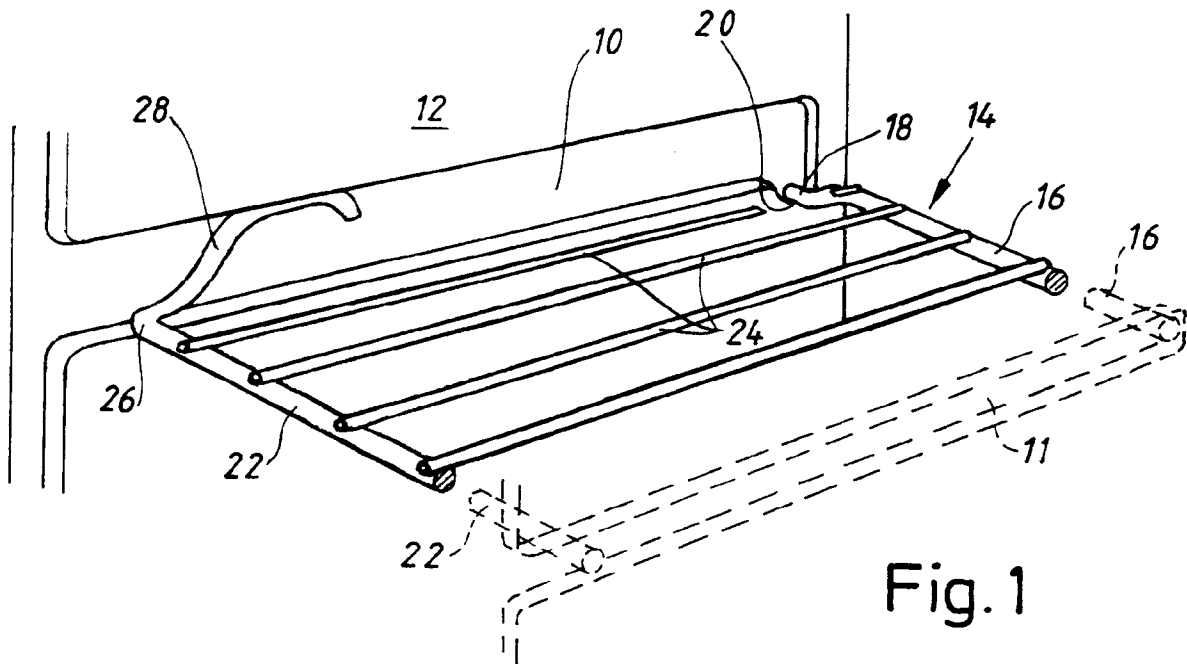
At the other side wall of the cabinet the shelf is shown to be supported by the ends 16 and 22 of the wires resting in a groove 11. The groove 11 can be made as a reflected image of the groove 10 and the edge of the shelf which co-operates with the groove 11 can be made as a reflected image of the edge of the shelf which co-operates with the groove 10, the locking of the shelf becoming identically the same in

both grooves.

The wires 24 can at their middles be fixed against movement sideways by a transverse wire, which runs parallel with the wires 16 and 22 and is welded to the wires 24.

Claims

1. Refrigerator or freezer cabinet with a wire shelf (14) showing a front transverse wire (22), a rear transverse wire (16) and longitudinal wires (24) connecting the transverse wires, which shelf with two opposite edges is intended to be pushed in and rest in grooves (10, 11) in opposite inner side walls (12) of the cabinet, **characterized** in that at least one of the edges the end (18) of the rear wire (16) rests in a pit (20) in the groove (10) and the end (26) of the front wire (22), which rests against the bottom of the pit (10), shows an extension (28) pointing backwards in the groove (10) and by elasticity in the longitudinal wires (24) constantly is pressed against the roof of the groove or is at least pressed against the roof of the groove, when the end (18) of the rear wire moves out of the pit (20) when the shelf is taken out.





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EUROPEAN SEARCH REPORT

Application Number
EP 95 85 0008.4
Page 1

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.6)
X	DE, A, 1282035 (ROBERT BOSCH HAUSGERÄTE G.M.B.H.), 7 November 1968 (07.11.68) * column 3, line 34 - column 5, line 57, figures 3-5 *	1	F25D 25/02
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A	AU, B, 45333 (EMAIL LIMITED), 13 February 1986 (13.02.86)	1	
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A	EP, A3, 0365936 (KLINOTEC GMBH MEDIZINISCH-TECHNISCHE ARTIKEL), 2 May 1990 (02.05.90)	1	

The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.6) A47B F25D
Place of search STOCKHOLM		Date of completion of the search 3 May 1995	Examiner LÖFVING INGER
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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