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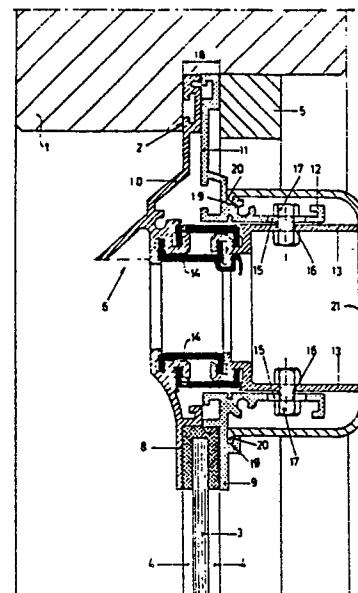
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㉓ A ventilator.

㉔ A ventilator, comprising a housing which is provided with an air passage, said housing, at its lower side, being provided with a mounting for clamping a glass pane, and moreover, is adapted to be secured in a frame or the like at the other sides. According to the invention the housing consists of a front and a rear portion (6, 7), each comprising a half (8, 9) of the glass pane mounting, which halves (8, 9) fit against one another, and can be mutually fixed after clamping a glass pane (3) therebetween, if necessary with the interposition of a sealing rim (4).

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A ventilator.

The invention relates to a ventilator comprising a housing which is provided with an air passage, said housing, at its lower side, being provided with a mounting for clamping a glass pane, and, moreover, is adapted to be secured in a frame or the like at the other sides.

Such ventilators are known in many forms.

There exists a need for a ventilator which can be adapted in a simple manner to glass panes of different thicknesses. It is an object of the invention to provide such a ventilator.

The ventilator according to the invention is characterised in that the housing consists of a front and a rear portion each comprising a half of the glass pane mounting, which halves fit against one another, and can be mutually fixed after clamping a glass pane therebetween, if necessary with the interposition of a sealing rim.

By shifting inwards and outwards both portions and mutually fixing them in the desired position, an adaptation to any glass pane thickness and different thicknesses of sealing rims can be obtained, so that it is no longer necessary to manufacture and stocking different ventilators for these purposes.

In particular in the case that such a ventilator together with a glass pane is to be mounted by means of a glass lath in a rebate, this ventilator is further characterised in that both housing portions at the three sides contacting the rebate, each are provided with a flange half, the outer side of these flange halves being situated at the same distance at the inner sides of the glass pane mounting halves.

In particular both housing portions are provided with co-operating fitting parts, in particular sliding flanges, which can be mutually fixed. Preferably said fitting parts define, at the rear side of the housing, the outlet passage.

Said means for mutually fixing both housing portions comprise, in particular, elongated slots in a wall of one of the fitting parts, and tensioning screws inserted through said part.

The outer wall of the outlet flow passage is, in particular, provided with ledges behind which claws of a distributing cap to be arranged over the outlet opening can grip, said cap, at the same time, covering the tensioning screws.

The invention will be elucidated below in more detail by reference to a drawing showing a diagrammatic cross-section of a ventilator according to the invention in the mounted condition.

In the drawing a part of a frame 1 is shown which is provided with an internal rebate shoulder 2, against which a glass pane 3 with interposed

sealing rims 4 can be fixed by means of a glass lath 5. On the upper edge of the glass pane 3 a ventilator is provided consisting of two portions 6 and 7, each being provided with a lower flange 8 or 9 resp., which flanges, together, form a mounting fitting on the upper edge of the pane 3.

Along the three other sides both housing portions 6 and 7 each have a flange 10 or 11 resp., the outer flange 10 bearing against the rebate shoulder 2, and the inner flange 11 against the glass lath 5. These flanges 10 and 11 are shaped in such a manner that their outer surfaces are situated at the same distance as the inner surfaces of the glass pane mounting flanges 8 and 9.

The inner housing portion 7 is provided with a rearwardly extending outlet passage or channel 12, and the outer housing portion 6 comprises inwardly directed parts 13 fitting in the channel 12. These parts 13 are, for instance, connected with the forward housing portion 6 by means of insulating bridges 14.

In the upper and lower walls of the channel 12 slots 15 are formed, and in the parts 13 of the forward housing portion 6 screw holes 16 are formed in front of said slots, in which holes screws 17, inserted through the slot 15 in question, are screwed.

When mounting said housing on a glass pane 3, and after loosening the screws 17 if required, both portions are shifted apart, and, after arranging the pane 3 in the mounting 6, 7, said housing portions can be shifted back again until the sealing 4 has been sufficiently compressed, after which the screws 17 can be tightened. The whole assembly can be fixed thereafter by means of the glass lath 5 in the frame 1.

As shown in the drawing at 18, the distance between the casing flanges 10 and 11 at the rebate side and between the flanges 8 and 9 is the same, which last distance corresponds with the distance between the outer planes of the sealing rims 4. The glass lath 5 bearing, at the inner side, on the inner sealing rim 4, also bears against the inner flange 11.

It will be clear that the interconnection between both housing halves 6 and 7 can be obtained in many other ways. The internal structure of the air passage of this ventilator is not indicated since it does not belong to the present invention.

At the outer side of at least two walls of the channel 12, ledges 19 are formed behind which hooks 20 or the like of a flow distribution cap 21 can engage, which cap, at the same time, covers the screw heads 17.

Claims

1. A ventilator, comprising a housing which is provided with an air passage, said housing, at its lower side, being provided with a mounting for clamping a glass pane, and, moreover, is adapted to be secured in a frame or the like at the other sides, **characterised** in that said housing consists of a front and a rear portion (6, 7), each comprising a half (8, 9) of the glass pane mounting, which halves (8, 9) fit against one another, and can be mutually fixed after clamping a glass pane (3) therebetween, if necessary with the interposition of a sealing rim (4). 5

2. The ventilator of claim 1, intended for being fixed, together with a glass pane, in a rebate by means of a glass lath, **characterised** in that both housing portions (6, 7) at the three sides contacting the rebate (2), each are provided with a flange half (10, 11), the outer side of these flange halves being situated at the same distance (18) at the inner sides of the glass pane mounting halves (8, 9). 10

3. The ventilator of claim 1 or 2, **characterised** in that both housing portions (6, 7) are provided with co-operating fitting parts, and in particular sliding flanges (12, 13), which can be mutually fixed. 15

4. The ventilator of claim 3, **characterised** in that the fitting parts (12, 13) define, at the rear side of the housing, an outlet flow passage. 20

5. The ventilator of claim 3 or 4, **characterised** in that the means for mutually fixing both housing halves (6, 7) comprise, in particular, elongated slots (15) in one of said fitting parts (12) and tensioning screws inserted through said slots and screwed in corresponding screw holes (16) of the other part. 25

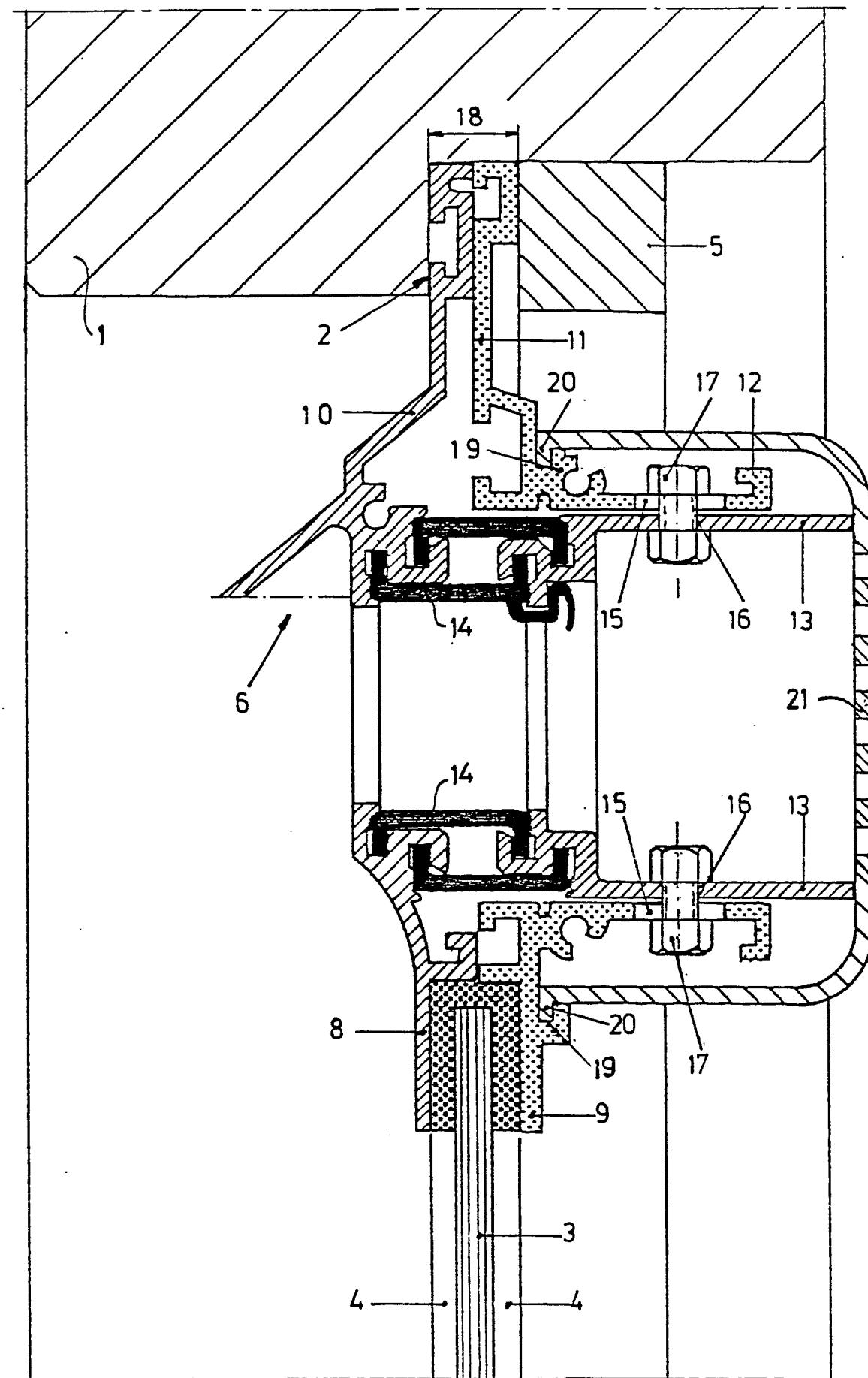
6. The ventilator of anyone of claims 3-6, **characterised** in that the outer wall (12) of the outlet flow passage is, in particular, provided with ledges (19), behind which claws (20) of a distribution cap (21) to be arranged over the outlet opening can grip, which cap (21), at the same time, covers the tensioning screws. 30

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DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
Category	Citation of document with indication, where appropriate, of relevant passages		
X	CH-A- 270 178 (BOSS) * Page 1, lines 29-68; page 2, lines 1-120; figures 1,2 *	1	E 06 B 7/10
A	---	3,5	
X	EP-A-0 115 824 (HARDWARE & SYSTEMS PATENTS LTD) * Claims; figures 1-9 *	1,4	
A	DE-C- 961 295 (TIETJENS) * Page 2, lines 32-62; figures 1,2 *	1	
A	FR-A-2 517 354 (TITON HARDWARE LTD) * Claims 1,2; figures 1-3B *	-----	
		TECHNICAL FIELDS SEARCHED (Int. Cl.4)	
		E 06 B	
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	28-04-1989	VIJVERMAN W.C.	
CATEGORY OF CITED DOCUMENTS		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	
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			