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⑤④ **Laundry drier.**

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⑤⑥ References cited :  
**EP-A- 0 106 283**  
**EP-A- 0 108 976**  
**GB-A- 783 114**

⑤⑥ References cited :  
**GB-A- 854 554**  
**GB-A- 1 252 509**  
**US-A- 2 434 886**  
**US-A- 4 033 047**

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## Description

The present invention relates to a laundry drier particularly of the type without humidity condenser and having a rotating drum.

Known domestic laundry driers are constituted by a supporting frame or cabinet having a rotating drum containing the laundry and having an air circulation system.

The programmed rotation of the drum stirs the laundry which is dried by the air circulation system.

The air circulation system comprises an exhaust fan which sucks air from the outside and an electric resistance that heats that air.

The heated air enters the drum where it crosses the laundry drawing out humidity.

Air is then let out of the drum, it passes through a filter and is discharged outside.

Usually, in known driers, the exhausted air outlet is located in the lower part of the back of the drier; it is therefore necessary either to move the drier at a distance from the wall or to provide an air passage in the wall, to let the air out of the drier.

US-A-4.033.047, for example, discloses a clothes dryer having such construction of the air outlet.

EP-A-0108976 discloses a laundry dryer having an air outlet provided at a small distance from the wall due to the rear-projecting parts of its rear side.

To overcome these inconveniences, allowing more freedom in placing a drier in a room, some driers have been provided with two or three air outlets, located in different places of the cabinet and constituted by T-shaped or cross-shaped pipings inside the cabinet.

This solution has the drawback of being constructively complicated, and therefore costly, and furthermore it does not allow a total freedom in placing the drier in the domestic environment.

The aim of the present invention is to provide a drier having such an exhaust air outlet system as to allow a complete freedom in placing the drier in the domestic environment.

Within this aim, an object of the invention is to provide a machine having a constructively simple exhaust system and such as not to significantly affect the global cost.

A further object of the invention is to provide a drier that can be easily placed in the domestic environment with no limitations and above all with the possibility of changing its place easily.

The above aim, as well as these and other objects that will be more apparent later, are achieved by a laundry drier as disclosed in the appended claim 1.

Further characteristics and advantages of the invention will be more apparent by the following description of an embodiment of the invention, illustrated, by way of example, in the enclosed drawings in which:

figure 1 is a side elevation view of the drier according to the invention;

figure 2 is a back view of the drier;

figure 3 is a plan view of a room illustrating a few possible ways of placing the drier according to the invention.

With reference to the cited figures, the drier according to invention, generally designated with the reference numeral 1, comprises a cabinet 2 supporting and containing the internal elements.

In this case, the cabinet 2 has the usual prismatic configuration and comprises a back side 3, adapted to be put against a wall 4 of a room, and sides 5 and 6 adjacent to the back side 3.

The back side 3 has a recess 7 having a substantially rectangular section and open to sides 5 and 6.

The recess 7 has a vertical side 8, substantially parallel to the back side 3, on which there is an exhaust air outlet 10.

As illustrated in figure 1 and 3 (position 1b), the recess 7 allows to place the cabinet 2 against a wall 4 letting the exhaust air free to flow from the lateral sides of the cabinet.

It is furthermore possible to provide an exhaust pipe 11 for better conveying the air in a selected direction, as for example illustrated in figure 3 with the cabinet in position 1a.

It is of course also possible to convey the exhaust air outside the room, by means of adapted passages 12 provided in the wall 4 and using adapted exhaust pipes 11.

It has been found in practice that the laundry drier, according to invention, achieves the intended aim and objects, allowing the exhaust air to flow out freely and, at the same time, a complete freedom in placing the cabinet in the room.

An advantage of the invention resides in its constructive simplicity that makes it unnecessary the use of t-shaped, cross-shaped pipings or similar to convey the air in the desired direction.

The laundry drier, according to the invention, may have numerous modifications and variations, all within the inventive concept; furthermore, all the details may be substituted with technically equivalent elements.

The materials employed, as well as the dimensions, may be any according to the specific needs and the state of the art.

Where technical features mentioned in any claim are followed by reference signs, those reference signs have been included for the sole purpose of increasing the intelligibility of the claims and accordingly, such reference signs do not have any limiting effect on the scope of each element identified by way of example by such reference signs.

## Claims

1. Laundry drier comprising a supporting and containment cabinet (2) having a substantially prismatic configuration and a back side (3) adapted to be put against a wall (4), said drier furthermore comprising an exhaust air outlet (10) arranged at a recess (7) provided in said side put against the wall, said recess being open to the lateral sides (5,6) of said cabinet which are adjacent to said side put against the wall, characterized in that said recess has a vertical side (8) substantially parallel to said back side (3), said vertical side (8) extending for the entire length of said back side and being at a distance from said back side (3), said distance being such that said vertical side (8), of said recess, and said wall, which said back side is put against, form a passage adapted to let the exhaust air flow out of said lateral sides (5,6) of said cabinet, said passage being furthermore adapted to receive an exhaust pipe (11) which can be fitted to said outlet for conveying said exhaust air, said exhaust pipe extending longitudinally in said recess from said outlet towards either one of said lateral sides of said cabinet.

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dans un dégagement (7) prévu dans le fond disposé contre la paroi, caractérisé en ce que le dégagement possède une face verticale (8) substantiellement parallèle au fond (3), la face verticale (8) s'étendant sur toute la longueur du fond et étant à une certaine distance de ce fond (3), la distance étant telle que la face verticale (8) et la paroi contre laquelle le fond est disposé forment un passage adapté pour laisser circuler l'air d'évacuation hors des parois latérales (5, 6) du caisson, le passage étant de plus adapté pour recevoir une canalisation de sortie (11) qui peut être raccordée à la sortie d'air pour canaliser l'air d'évacuation, la canalisation de sortie s'étendant longitudinalement dans le dégagement à partir de la sortie d'air jusqu'à l'une quelconque des parois latérales du caisson.

## Patentansprüche

1. Wäschetrockner mit einem Träger- und Aufnahmegehäuse (2) von im wesentlichen prismatischer Form, mit einer Rückseite (3), mit der er an eine Wand (4) stellbar ist, und mit einem Abluftauslaß (10), der in einer Vertiefung (7) der an die Wand gestellten Rückseite angeordnet ist, wobei die Vertiefung zu den an die Rückseite grenzenden Seitenwänden (5,6) des Gehäuses hin offen ist, dadurch gekennzeichnet, daß die Vertiefung eine vertikale, im wesentlichen parallel zur Rückseite (3) angeordnete Fläche (8) aufweist, die sich über die ganze Breite der Rückseite und in einem solchen Abstand von dieser Rückseite (3) erstreckt, daß die senkrechte Fläche (8) der Vertiefung und die Wand, an die die Rückseite gestellt ist, einen Durchlaß bilden, der den Abluftstrom zu den Seitenwänden (5,6) des Gehäuses hin abströmen läßt und geeignet ist, ein Abzugsrohr (11) aufzunehmen, welches an den Auslaß angeschlossen werden kann, um die Abluft abzuleiten, und sich in der Vertiefung vom Auslaß der Länge nach zu einer der Seitenwände des Gehäuses erstreckt.

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## Revendications

1. Sèche-linge comportant un caisson formant support et enveloppe (2) ayant une forme substantiellement prismatique et un fond (3) prévu pour être disposé contre une paroi (4), le sèche-linge comportant en outre une sortie d'air d'évacuation (10) aménagée

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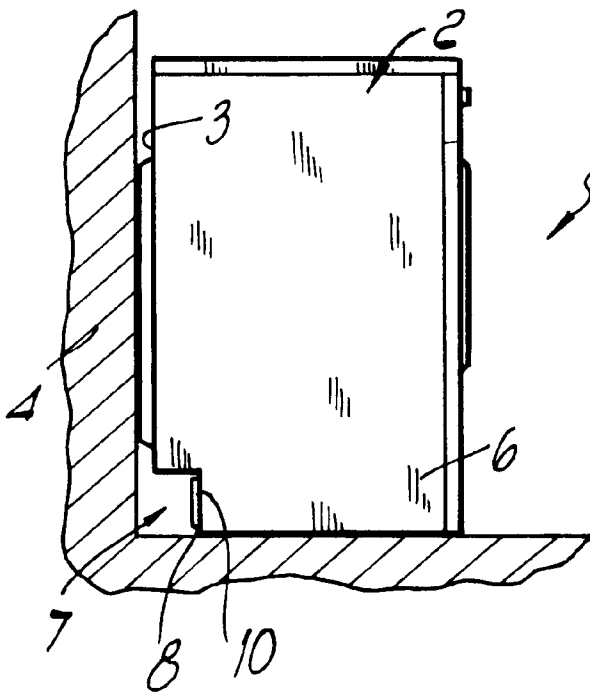


FIG. 1

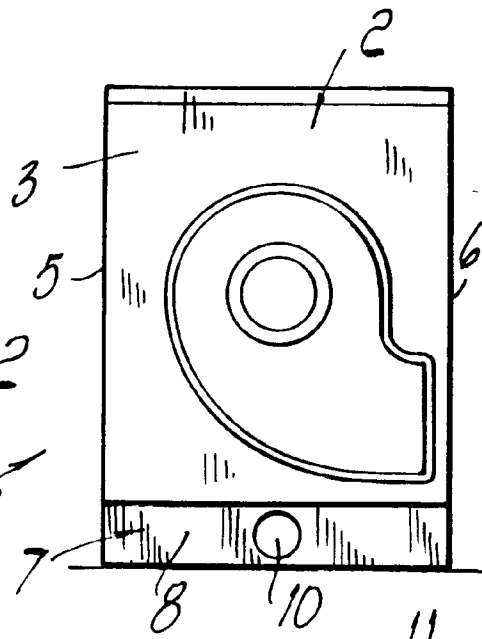


FIG. 2

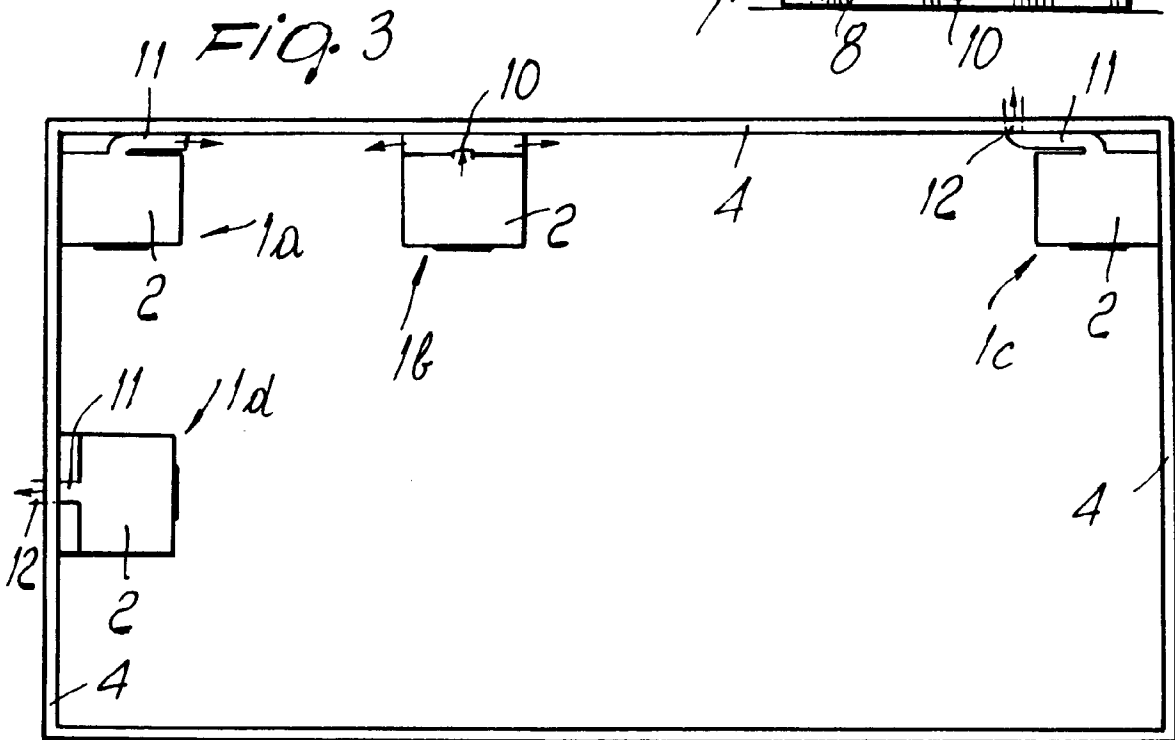


FIG. 3