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(54) **FRAME MATTRESS HAVING A REMOVABLE MATTRESS COVER AND A TURNABLE MATTRESS**

LIEGEFLÄCHENRAHMEN MIT ABNEHMBAREM MATRATZENÜBERZUG UND WENDBARER MATRATZE

MATELAS A CADRE COMPRENANT UNE ENVELOPPE AMOVIBLE ET UN MATELAS POUVANT ETRE RETOURNE

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- **Drawing filed on 01.03.99 with letter of 26.02.99 and showing the closest prior art.**

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Description

[0001] The present application relates to a frame mattress of the sort as indicated in the preamble of claim 1. The frame mattress consists of a frame, a spring inlay covered by a cloth, a main mattress of per se known type and a fitted cover mounted over the whole construction. The invention distinguishes itself by the removable fixing of the fitted cover and the turnability of the mattress.

[0002] Suppliers of conventional mattresses to be placed in the bottom of conventional beds have for a long time recommended that the mattress be turned at least once a year. In this way the materials will be allowed to recover on the side used, and the wear life of the mattress will be approximately doubled.

[0003] Frame mattresses are well known products in Scandinavia. However, up to now none of these products opens up for the possibilities of:

- a) removing the mattress cover completely in order to have it washed,
- b) turning the main part of the padding (the main mattress) i.e. the spring inlay with the padding material, such as latex foam.

[0004] For prior art frame mattresses applies, either:

- a) the main part of the padding is stapled or glued to the wooden frame, i.e. it is impossible to turn it, and/or
- b) the mattress cover is stapled or in some other way fixed to the wooden frame making it impossible to remove the cover to wash it.

[0005] Two alternative solutions are commercially known. One of them comprises the fixing of the mattress cover with a plastic string into a groove in the frame making it possible to remove the cover. However, the mattress cannot be turned. The second solution is a mattress provided with a zipper at three sides of the cover thus making it possible to open the cover but not to remove it. This opening as described allows the turning of the mattress, however, the combination removable cover/turnable mattress, as according to the present invention, is not achieved.

[0006] The present invention provides advantages regarding:

- 1) better hygiene because of the washable cover. In addition, the main product will have an increased wear life. This is particularly important both with a view to contagious illnesses and allergies,
- 2) the main padding with a spring inlay (the main mattress) may be used **on both sides**, thus essen-

tially increasing the wear time of the main product, maybe double it.

[0007] The invention is further illustrated by the aid of the following annexed drawings, wherein:

Fig. 1 shows the bearing wooden frame (1), in which a spring inlay (2) is placed covered by a cloth such as a Vlieseline cloth (3) stapled to the frame;

Fig. 2 shows a finished frame (1), whereupon is placed a turnable mattress (4) comprising a spring inlay, padding and side rims;

Fig. 3 shows how the fitted cover (5) is mounted over the whole construction and is fixed preferably with a velcro (6). One half of the velcro is stapled to the under side of the wooden frame (1) and the opposite part is fixed to the cover (5) by stitches. The frame mattress is ready for use.

Fig. 4 shows the dismantling: The velcro (6) is opened at the under side of the frame, and the cover (5) may now in a simple way be removed to be washed;

Fig. 5 shows how the main mattress (4) now may be turned before the cover (5) is replaced.

[0008] The purpose of turning the main part of the frame mattress is that the load on the mattress is distributed on both sides, in practice meaning that the frame mattress according to the invention maintains its comfort properties as long as possible. Due to the washability of its cover the frame mattress according to the invention maintains the requirements to hygiene and delicate appearance.

[0009] The invention comprises all types of frame mattresses or corresponding constructions. All types of padding materials (e.i. fibres, polyurethane foam, latex foam) and spring inlays (e.i. Bonell, LFK, Pocket) may be used.

Claims

1. Frame mattress comprising a mattress (4) attached to a frame (1) and a mattress cover (5) mounted over the whole construction and fixed to the frame (1), characterized in that the mattress (4) is placed on the frame (1), and the mattress cover (5) is form fitted and removably mounted to the frame (1), whereby the mattress (4) can be turned when the mattress cover (5) has been removed.
2. Frame mattress according to claim 1, characterized

in that the removable mounting to the frame (1) is provided optionally with a Velcro (6), which one part is fixed to the frame (1) for instance by stapling, and the opposite part is fixed to the mattress cover (5), for instance with stitches.

3. Frame mattress according to claims 1-2, *characterised in* that the mattress (4) consists of a spring inlay with padding.
4. Frame mattress according to the claims 1-3, *characterised in* that the padding material comprises fibres, polyurethane foam or latex foam.
5. Frame mattress according to the claims 1-4, *characterised in* that the spring inlay is of the type Bonell, LFK, Pocket.

Patentansprüche

1. Liegeflächenrahmen, der eine an einem Rahmen (1) befestigte Matratze (4) und einen die gesamte Konstruktion bedeckenden und an dem Rahmen (1) befestigten Matratzenüberzug (5) umfaßt, *dadurch gekennzeichnet, daß* die Matratze (4) auf dem Rahmen (1) liegt und der Matratzenüberzug (5) an die Form der Matratze angepaßt und abnehmbar an dem Rahmen (1) angebracht ist, wodurch die Matratze (4) gewendet werden kann, wenn der Matratzenüberzug (5) abgenommen ist.
2. Liegeflächenrahmen nach Anspruch 1, *dadurch gekennzeichnet, daß* der abnehmbare Aufbau auf den Rahmen (1) wahlweise mit einem Klettverschluß (6) versehen ist, von dem ein Teil an dem Rahmen (1) beispielsweise durch Heftklammern befestigt und der gegenüberliegende Teil an dem Matratzenüberzug (5) beispielsweise mit Nähten befestigt ist.
3. Liegeflächenrahmen nach Anspruch 1 bis 2, *dadurch gekennzeichnet, daß* die Matratze (4) aus einem Sprungfederkern mit einer Polsterung besteht.
4. Liegeflächenrahmen nach Anspruch 1 bis 3, *dadurch gekennzeichnet, daß* das Polstermaterial Fasern, Polyurethanschaum oder Latexschaum umfaßt.
5. Liegeflächenrahmen nach Anspruch 1 bis 4, *dadurch gekennzeichnet, daß* der Sprungfederkern ein Bonelltyp, ein LFK-Typ oder ein Taschenfederkern typ ist.

Revendications

1. Matelas à cadre comportant un matelas (4) fixé à

un cadre (1) et un couvre-matelas (5) monté sur toute la structure et fixé au cadre (1), caractérisé en ce que le matelas (4) est placé sur le cadre (1) et le couvre-matelas (5) est ajusté et monté de manière libérable sur le cadre (1), et le matelas (4) peut être tourné lorsque le couvre-matelas (5) a été enlevé.

2. Matelas à cadre selon la revendication 1, caractérisé en ce que le montage libérable sur le cadre (1) est facultativement doté d'un Velcro (6) dont une partie est fixée au cadre (1), par exemple par agrafage, et la partie opposée est fixée au couvre-matelas (5), par exemple par des coutures.
3. Matelas à cadre selon les revendications 1 et 2, caractérisé en ce que le matelas (4) est constitué d'une garniture à ressort dotée d'un rembourrage.
4. Matelas à cadre selon les revendications 1 à 3, caractérisé en ce que le matériau de rembourrage comporte des fibres, de la mousse de polyuréthane ou de la mousse de latex.
5. Matelas à cadre selon les revendications 1 à 4, caractérisé en ce que la garniture à ressorts est du type Bonell, LFK, Pocket.



