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(54) **Ironing roll and ironing device provided with such ironing roll**

Bügelwalze und Bügelvorrichtung mit solch einer Bügelwalze

Rouleau à repasser et machine à repasser avec un tel rouleau

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Description

[0001] The invention relates, on the one hand, to an ironing roll for an ironing device which is provided with a heatable chest, the ironing roll being provided with a casing, and the ironing roll comprising one or more reinforcement elements which are provided to be connected to the casing and which extend, once connected to this casing, within the casing, the aforementioned reinforcement elements being provided to be initially releasably connected to the casing and the aforementioned reinforcement elements being provided on their outer circumference with teeth and the aforementioned casing being provided with slots into which these teeth can be introduced.

[0002] On the other hand, the invention relates to an ironing device provided with an ironing roll with a casing and a heatable chest.

[0003] The existing ironing rolls which are used in an ironing device with a heatable chest have a cylindrical casing.

[0004] A first method for manufacturing an ironing roll of this type is in this case the round-centring of one flat plate with or without perforations having a maximum width of 2 metres, the side edges, which in this manner face one another, being completely welded to one another and a cylindrical tube being in this manner obtained. Since a complete working width of an ironing roll is normally between 3.3 and 4 metres (this is the usual working width of an ironing roll used in an ironing device with a heatable chest), two completely round-centred and welded plates of this type should be welded to each other, next to each other. If the plates have not yet been provided with perforations, the plates are perforated once they have been welded to each other. Reinforcements, which are welded to the plates, are present within the casing.

[0005] The drawback of a method of this type is that the method is very time-consuming. A method of this type has the further drawback that the welding-together of the side edges, which are located opposite one another after the round-centring of the plate, causes the ironing roll to warp and, as a consequence, it is possible to use only thick plates which are less sensitive to warping. If the plates are not provided with perforations, the perforations should be formed, after the tubes have been welded up and welded to one another, by means of machines which are specially designed for this purpose.

[0006] A second method consists in taking a round tube in accordance with standard dimensions, and in then providing the tube with perforations.

[0007] The drawback of a method of this type is that the transportation of tubes having such a large diameter, for example 1.2 or 1.6 m, is very expensive. Furthermore, standard tubes of this type have in all cases a thick wall, in particular usually between 10 and 12 mm; this has the drawback that perforating the tubes is more difficult and should be carried out using machines which are specially designed for this purpose.

[0008] Furthermore, the patent literature describes various sorts of ironing rolls and methods for manufacturing them. However, most ironing rolls are in this case ironing rolls for relatively small models of ironing devices, the method for manufacturing them being unsuitable to obtain sufficiently rigid ironing rolls for relatively large contemporary industrial ironing devices, in which ironing rolls having diameters of 0.3 m and more and lengths of 1 m and more are also employed.

[0009] DE 11 56 755 B describes a method for manufacturing an ironing roll which, after manufacture, can be opened up in order to be able to access machine components located in the ironing roll for maintenance. The ironing roll is in this case constructed from two segments of a circle which can be fastened to one another in four different ways. However, an ironing roll obtained thereby is insufficiently rigid, in a relatively large design, in order to be able to be employed in contemporary industrial ironing devices.

[0010] US 2,325,450 describes, again, an ironing roll which, in a relatively large design, cannot be designed so as to be sufficiently rigid to be employed in contemporary industrial ironing devices. Furthermore, the construction of the ironing roll described in this document is particularly complex, so that the ironing roll cannot be mounted simply and rapidly.

[0011] DE 33 10 019 A1 describes a method for manufacturing an ironing roll wherein a multiplicity of resilient elements are fastened to support rings which together form the casing of the ironing roll. Making the surface of the ironing roll flexible, in conjunction with the necessary rigidity of the roll, is very important for creating a uniform pressure on the items to be ironed and for maintaining this pressure even when the roll winding starts to wear. With an ironing roll as described in DE 33 10 019 A1, it is extremely difficult to obtain a good balance of rigidity versus flexibility of the ironing roll. Furthermore, this balance is, as a consequence of normal wear, less stable over time, so that the resilient elements frequently have to be replaced in order to ensure, again, a good balance. The (dis)mounting of an ironing roll of this type is, in addition, also very laborious, since each of the resilient elements has to be separately attached to the support rings and secured thereto. An ironing roll of this type is therefore also very expensive.

[0012] US 1,715,053 A describes how an ironing roll can be manufactured by attaching separate bent wooden strips next to one another to support rings, the bent wooden strips together forming the casing of the ironing roll. An ironing roll of this type with wooden strips is certainly not suitable to be employed in ironing devices provided with an ironing roll with a casing and a heatable chest. The wooden strips would warp and eventually rot. If the strips were made of metal, this ironing roll would become too heavy and thus much too expensive.

[0013] EP 0 711 861 A1 describes an ironing roll which can already be manufactured much less expensively than the above-described ironing rolls from the prior art.

The ironing roll is constructed from a multiplicity of circular strips which are attached to disc-shaped reinforcement elements, these reinforcement elements being securely welded to a central shaft. Resilient combs are attached between each of the strips. However, in order to design the ironing roll from EP 0 711 861 A1 so as to be sufficiently rigid, the central carrying shaft must be designed so as to be heavy and is thus expensive. Furthermore, the attaching of the large number of circular strips with the resilient combs therebetween is also very time-consuming.

[0014] The object of the invention is, on the one hand, to provide a cylindrical ironing roll for an ironing device which is provided with a heatable chest, wherein the ironing roll can be manufactured in a less laborious, less time-consuming and less expensive manner, the rigidity of the ironing roll also being ensured in relatively large embodiments having a diameter of 0.3 m or more and a length of 1 m or more.

[0015] This object of the invention is achieved by providing an ironing roll for an ironing device which is provided with a heatable chest, the ironing roll being provided with a casing, the ironing roll comprising one or more reinforcement elements which are provided to be connected to the casing and which extend, once connected to this casing, within the casing, the aforementioned reinforcement elements being provided to be initially releasably connected to the casing, the aforementioned reinforcement elements being provided on their outer circumference with teeth and the aforementioned casing being provided with slots into which these teeth can be introduced and the aforementioned reinforcement elements being provided on their outer circumference with first and second teeth, the second teeth having a height which is less than the height of the first teeth, and the second teeth being welded on in the corresponding slots of the aforementioned casing.

[0016] An ironing roll according to the invention no longer requires a heavy and thus expensive central shaft as in the ironing roll from EP 0 711 861 A1. When only teeth of equal height are provided on the reinforcement elements, such as is the case in the ironing roll from EP 0 711 861 A1, either the ironing roll cannot be mounted simply and rapidly or the ironing roll cannot be designed so as to be sufficiently rigid without the heavy and expensive central shaft. If the teeth are designed so as to be sufficiently high to position the casing (which may be constructed from strips or partial casings) neatly with respect to the reinforcement elements in order to mount the reinforcement elements simply and rapidly, then, when welding these teeth on in the corresponding slots of the casing, the weld is, after wearing-away of the casing at the level of this weld, insufficiently strong in order to design the ironing roll so as to be sufficiently rigid without the central shaft. If, however, the teeth are designed so as to be lower in order to obtain sufficiently sturdy welds in order to design the ironing roll so as to be sufficiently rigid without the central shaft, then the casing

cannot be positioned sufficiently neatly with respect to the reinforcement elements in order to be able to ensure simple and rapid mounting. By now providing first and second teeth, the first teeth being designed so as to be higher in order to position the casing neatly with respect to the reinforcement elements in order to be able to ensure simple and rapid mounting and the second teeth being designed so as to be lower in order to be able to ensure sturdy welds, the above-mentioned problems from the prior art are remedied.

[0017] In this way, an ironing roll is obtained for an ironing device with a heatable chest that can be manufactured from a thinner material, without that requiring a heavy central shaft, and that is less time-consuming to manufacture, as a result of which an ironing roll of this type can be manufactured in an economically more advantageous manner.

[0018] In a preferred embodiment of an ironing roll according to the invention, the casing of the ironing roll consists of two or more partial casings which are provided to be initially releasably connected to the aforementioned reinforcement elements.

[0019] In an advantageous embodiment of an ironing roll according to the invention, the ironing roll comprises at least two reinforcement elements which are provided to be initially releasably connected at the two ends of the ironing roll to the aforementioned casing or the aforementioned partial casings.

[0020] In a more advantageous embodiment of an ironing roll according to the invention, the aforementioned first and/or second reinforcement element is provided for attaching a bearing arrangement in such a way that the ironing roll can be rotatably arranged in the ironing device.

[0021] In a preferred embodiment of an ironing roll according to the invention, the ironing roll comprises one or more intermediate reinforcement elements which are provided to be initially releasably connected between the ends of the ironing roll to the aforementioned casing or the aforementioned partial casings.

[0022] In a particular embodiment of an ironing roll according to the invention, the aforementioned reinforcement elements are initially releasably connected to the aforementioned casing or the aforementioned partial casings by means of a releasable snap connection.

[0023] In a first more particular embodiment of an ironing roll according to the invention, the aforementioned releasable snap connection between the aforementioned casing or the aforementioned partial casings and a reinforcement element is produced by providing the two ends of the casing or of the aforementioned partial casings, which extend in the longitudinal direction of the ironing roll, with a down folded edge in which a recess is formed that is designed in such a way that the respective reinforcement element can be at least partially introduced into this recess.

[0024] In a second more particular embodiment of an ironing roll according to the invention, the aforemen-

tioned releasable snap connection between the aforementioned casing or the aforementioned partial casings and a reinforcement element is produced by providing the two ends of the casing or of each of the aforementioned partial casings, which extend in the longitudinal direction of the ironing roll, with a down folded edge and by providing the respective reinforcement element with one or more recesses into which the aforementioned down folded edge can be at least partially introduced.

[0025] In an advantageous embodiment of an ironing roll according to the invention, the aforementioned reinforcement elements are designed as annular discs which, after mounting, are in contact over substantially their entire outer circumference with the aforementioned casing or the aforementioned partial casings.

[0026] In a more advantageous embodiment of an ironing roll according to the invention, the aforementioned casing or the aforementioned partial casings are designed as perforated and plate-shaped elements which are curved in such a way that they surround the aforementioned annular discs.

[0027] A further object of the invention is to provide an ironing device which is provided with a heatable chest and a cylindrical ironing roll and can be manufactured in a less laborious, less time-consuming and less expensive manner.

[0028] This object of the invention is achieved by providing an ironing device, comprising a heatable chest, and an ironing roll according to the invention as described above.

[0029] This invention will now be explained in greater depth based on the following detailed description of a preferred ironing roll according to the invention. The purpose of this description is exclusively to provide a clarificatory example and to indicate further advantages and special features of this invention, and may thus in no way be interpreted as a limitation of the scope of the invention or of the patent rights applied for in the claims.

[0030] In this detailed description, reference is made by means of reference numerals to the enclosed drawings, in which:

- Figure 1 shows an ironing roll for an ironing device which is provided with a heatable chest, the ironing roll being provided with a casing consisting of two partial casings, these partial casings being connected to 4 substantially annular discs via a releasable snap connection; and
- Figure 2 shows the ironing roll as shown in Figure 1, one of the two partial casings not being shown.

[0031] A preferred embodiment of a cylindrical ironing roll (1) according to the invention, such as is shown in Figures 1 and 2, consists of a casing which in this preferred embodiment is constructed from two partial casings (2a, 2b). These partial casings (2a, 2b) consist in this case of curved plates, the curvature of these plates being designed in such a way that the ends (20a, 20b)

of these plates, which extend in the longitudinal direction (A) of the ironing roll (1), substantially adjoin each other and thus form the complete casing of the cylindrical ironing roll (1). These plates are in this case provided with perforations (21).

[0032] Furthermore, the ironing roll (1) is provided at the two ends (10) thereof, which are positioned transversely to the longitudinal direction (A) of the ironing roll (1), with reinforcement elements (3a, 3c) which are provided to be initially releasably connected to the partial casings (2a, 2b). In this case, the aforementioned first and/or second reinforcement element (3a or 3c) is preferably provided for attaching a bearing arrangement in such a way that the ironing roll (1) can be rotatably arranged in the ironing device.

[0033] Furthermore, 2 intermediate reinforcement elements (3b), which are positioned transversely to the longitudinal direction of the ironing roll (1), are provided between these two ends (10). These intermediate reinforcement elements (3b) are also provided to releasably connect the partial casings (2a, 2b) to these intermediate reinforcement elements (3b). The number of intermediate reinforcement elements (3b) is in this case dependent on the length of the ironing roll (1).

[0034] It is also possible, although this is not shown in the figures,

- to design the casing as one round-centred and perforated plate which is initially releasably connected to the aforementioned reinforcement elements;
- to provide more than two partial casings which are initially releasably connected to the reinforcement elements (3a, 3b, 3c).

[0035] The casing/the partial casings preferably have a thickness of between 2 and 5 mm.

[0036] The initially releasable connection between the casing or the partial casings (2a, 2b) and the reinforcement elements (3a, 3b, 3c) is preferably an initially releasable snap connection.

[0037] For this purpose, on the one hand, the two ends of the casing, which extend in the longitudinal direction (A) of the ironing roll (1), or the two ends (20a, 20b) of each of the aforementioned partial casings (2a, 2b), which extend in the longitudinal direction (A) of the ironing roll (1), can be provided with a down folded edge (22) in which a recess (23) is formed that is designed in such a way that the respective reinforcement element (3a, 3b, 3c) can be at least partially introduced into this recess (23). In the preferred embodiment as shown in Figures 1 and 2, all the reinforcement elements (3a, 3b, 3c) are initially releasably connected to the partial casings (2a, 2b) in this way.

[0038] On the other hand, the two ends of the casing, which extend in the longitudinal direction (A) of the ironing roll (1), or the two ends (20a, 20b) of each of the aforementioned partial casings (2a, 2b), which extend in the longitudinal direction (A) of the ironing roll (1), can be

provided with a down folded edge (22) and the respective reinforcement element (3a, 3b, 3c) can in this case be provided with one or more recesses (23) into which the aforementioned down folded edge (22) can be at least partially introduced (not shown in the figures).

[0039] It is in this case also possible to connect a number of reinforcement elements (3a, 3b, 3c) to the casing or the partial casings (2) in the above-stated first manner, and to connect a number of other reinforcement elements (3a, 3b, 3c) to the casing or the partial casings (2) in the above-stated second manner.

[0040] According to the invention, the reinforcement elements (3a, 3b, 3c) are provided on their outer surface with teeth (30, 31) which are provided to be introduced, preferably in a fitting manner, into slots (24) formed in the casing or the partial casings (2a, 2b). These teeth consist in this case of first and second teeth (30, 31), the second teeth (31) having a height which is less than the height of the first teeth (30), and the second teeth (31) being welded on in the corresponding slots (23) of the aforementioned casing or the aforementioned partial casings (2a, 2b).

[0041] As may be seen in Figures 1, 2, 3a, 3b and 3c, these reinforcement elements (3a, 3b, 3c) are preferably designed as annular discs which, after mounting, are in contact over substantially their entire outer circumference with the aforementioned partial casings (2a, 2b).

Claims

1. Ironing roll (1) for an ironing device which is provided with a heatable chest, the ironing roll (1) being provided with a casing, the ironing roll (1) comprising one or more reinforcement elements (3a, 3b, 3c) which are provided to be connected to the casing and which extend, once connected to this casing, within the casing, the aforementioned reinforcement elements (3a, 3b, 3c) being provided to be initially releasably connected to the casing and the aforementioned reinforcement elements (3a, 3b, 3c) being provided on their outer circumference with teeth (30, 31) and the aforementioned casing being provided with slots (24) into which these teeth (30, 31) can be introduced, **characterized in that** the aforementioned reinforcement elements (3a, 3b, 3c) are provided on their outer circumference with first and second teeth (30, 31), the second teeth (31) having a height which is less than the height of the first teeth (30), and the second teeth (31) being welded on in the corresponding slots (23) of the aforementioned casing.
2. Ironing roll according to Claim 1, **characterized in that** the casing of the ironing roll (1) is constructed from two or more partial casings (2a, 2b) which are provided to be initially releasably connected to the aforementioned reinforcement elements (3a, 3b, 3c).
3. Ironing roll according to Claim 1 or 2, **characterized in that** the ironing roll (1) comprises at least two reinforcement elements (3a, 3c) which are provided to be initially releasably connected at the two ends (10) of the ironing roll (1), which are located transversely to the longitudinal direction (A) of the ironing roll (1), to the aforementioned casing or the aforementioned partial casings (2a, 2b).
4. Ironing roll according to Claim 3, **characterized in that** the aforementioned first and/or second reinforcement element (3a or 3c) is provided for attaching a bearing arrangement in such a way that the ironing roll (1) can be rotatably arranged in the ironing device.
5. Ironing roll according to Claim 3 or 4, **characterized in that** the ironing roll (1) comprises one or more intermediate reinforcement elements (3c) which are provided to be initially releasably connected between the aforementioned ends (10) of the ironing roll (1), which are located transversely to the longitudinal direction (A) of the ironing roll (1), to the aforementioned casing or the aforementioned partial casings (2a, 2b).
6. Ironing roll according to one of Claims 1 to 5 inclusive, **characterized in that** the aforementioned reinforcement elements (3a, 3b, 3c) are initially releasably connected to the aforementioned casing or the aforementioned partial casings (2a, 2b) by means of a releasable snap connection.
7. Ironing roll according to Claim 6, **characterized in that** the aforementioned releasable snap connection between the aforementioned casing or the aforementioned partial casings (2a, 2b) and a reinforcement element (3a, 3b, 3c) is produced by providing the two ends of the casing or the two ends (20a, 20b) of each of the aforementioned partial casings (2a, 2b), which extend in the longitudinal direction (A) of the ironing roll (1), with a down folded edge (22) in which a recess (23) is formed that is designed in such a way that the respective reinforcement element (3a, 3b, 3c) can be at least partially introduced into this recess (23).
8. Ironing roll according to Claim 6 or 7, **characterized in that** the aforementioned releasable snap connection between the aforementioned casing or the aforementioned partial casings (2a, 2b) and a reinforcement element (3a, 3b, 3c) is produced by providing the two ends (20a, 20b) of the casing or of each of the aforementioned partial casings (2a, 2b), which extend in the longitudinal direction (A) of the ironing roll (1), with a down folded edge (22) and by providing

the respective reinforcement element (3a, 3b, 3c) with one or more recesses (23) into which the aforementioned down folded edge (22) can be at least partially introduced.

9. Ironing roll according to one of the preceding claims, **characterized in that** the aforementioned reinforcement elements (3a, 3b, 3c) are designed as annular discs which, after mounting, are in contact over substantially their entire outer circumference with the aforementioned casing or the aforementioned partial casings (2a, 2b).
10. Ironing roll according to Claim 9, **characterized in that** the aforementioned casing or the aforementioned partial casings (2a, 2b) are designed as perforated and plate-shaped elements which are curved in such a way that they surround the aforementioned annular discs (3a, 3b, 3c).
11. Ironing device, comprising a heatable chest, and an ironing roll (1) according to one of the preceding claims.

Patentansprüche

1. Bügelwalze (1) für eine Bügelvorrichtung, die mit einem beheizbaren Korb ausgestattet ist, wobei die Bügelwalze (1) mit einem Gehäuse ausgestattet ist, wobei die Bügelwalze (1) ein oder mehrere Verstärkungselemente (3a, 3b, 3c) umfasst, die bereitgestellt sind, um mit dem Gehäuse verbunden zu werden, und die sich, nachdem sie mit diesem Gehäuse verbunden sind, innerhalb des Gehäuses erstrecken, wobei die oben angegebenen Verstärkungselemente (3a, 3b, 3c) bereitgestellt sind, um anfänglich lösbar mit dem Gehäuse verbunden zu sein und die oben erwähnten Verstärkungselemente (3a, 3b, 3c) an ihrem äußeren Umfang mit Zähnen (30, 31) versehen sind und das oben erwähnte Gehäuse mit Schlitz (24) versehen ist, in die diese Zähne (30, 31) eingeführt werden können, **dadurch gekennzeichnet, dass** die oben erwähnten Verstärkungselemente (3a, 3b, 3c) an ihrem äußeren Umfang mit ersten und zweiten Zähnen (30, 31) versehen sind, wobei die zweiten Zähne (31) eine Höhe aufweisen, die geringer als die Höhe der ersten Zähne (30) ist, und die zweiten Zähne (31) in den entsprechenden Schlitz (23) des oben erwähnt Gehäuses angeschweißt sind.
2. Bügelwalze nach Anspruch 1, **dadurch gekennzeichnet, dass** das Gehäuse der Bügelwalze (1) aus zwei oder mehreren Teilgehäusen (2a, 2b) konstruiert ist, die bereitgestellt sind, um anfänglich lösbar mit den oben erwähnten Verstärkungselementen (3a, 3b, 3c) verbunden zu sein.

3. Bügelwalze nach Anspruch 1 oder 2, **dadurch gekennzeichnet, dass** die Bügelwalze (1) mindestens zwei Verstärkungselemente (3a, 3c) umfasst, die bereitgestellt sind, um anfänglich lösbar an den zwei Enden (10) der Bügelwalze (1) verbunden zu sein, die quer zur Längsrichtung (A) der Bügelwalze (1), dem oben erwähnten Gehäuse oder den oben erwähnten Teilgehäusen (2a, 2b) angeordnet sind.
4. Bügelwalze nach Anspruch 3, **dadurch gekennzeichnet, dass** das oben erwähnte erste und/oder zweite Verstärkungselement (3a oder 3c) bereitgestellt ist, um eine Lageranordnung derart zu befestigen, dass die Bügelwalze (1) drehbar in der Bügelvorrichtung angeordnet sein kann.
5. Bügelwalze nach Anspruch 3 oder 4, **dadurch gekennzeichnet, dass** die Bügelwalze (1) ein oder mehrere Zwischen-Verstärkungselemente (3c) umfasst, die bereitgestellt sind, um anfänglich lösbar zwischen den oben erwähnten Enden (10) der Bügelwalze (1) verbunden zu sein, die quer zur Längsrichtung (A) der Bügelwalze (1), dem oben erwähnten Gehäuse oder den oben erwähnten Teilgehäusen (2a, 2b) angeordnet sind.
6. Bügelwalze nach einem der Ansprüche 1 bis einschließlich 5, **dadurch gekennzeichnet, dass** die oben erwähnten Verstärkungselemente (3a, 3b, 3c) anfänglich lösbar mit dem oben erwähnten Gehäuse oder den oben erwähnten Teilgehäusen (2a, 2b) mit Hilfe einer lösbaren Schnappverbindung verbunden sind.
7. Bügelwalze nach Anspruch 6, **dadurch gekennzeichnet, dass** die oben erwähnte lösbare Schnappverbindung zwischen dem oben erwähnten Gehäuse oder den oben erwähnten Teilgehäusen (2a, 2b) und einem Verstärkungselement (3a, 3b, 3c) durch die Ausstattung der zwei Enden des Gehäuses oder der zwei Enden (20a, 20b) jedes der oben erwähnten Teilgehäuse (2a, 2b), die sich in der Längsrichtung (A) der Bügelwalze (1) erstrecken, mit einer nach unten geklappten Kante (22) erzeugt wird, in der eine Vertiefung (23) gebildet ist, die derart entworfen ist, dass das entsprechende Verstärkungselement (3a, 3b, 3c) mindestens teilweise in diese Vertiefung (23) eingeführt werden kann.
8. Bügelwalze nach Anspruch 6 oder 7, **dadurch gekennzeichnet, dass** die oben erwähnte lösbare Schnappverbindung zwischen dem oben erwähnten Gehäuse oder den oben erwähnten Teilgehäusen (2a, 2b) und einem Verstärkungselement (3a, 3b, 3c) durch die Ausstattung der zwei Enden (20a, 20b) des Gehäuses oder jedes der oben erwähnten Teilgehäuse (2b, 2a), die sich in der Längsrichtung (A) der Bügelwalze (1) erstrecken, mit einer nach unten

geklappten Kante (22) und durch die Ausstattung des entsprechenden Verstärkungselements (3a, 3b, 3c) mit einer oder mehreren Vertiefungen (23) erzeugt wird, in die die oben erwähnte nach unten geklappte Kante (22) mindestens teilweise eingeführt werden kann.

9. Bügelwalze nach einem der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** die oben erwähnten Verstärkungselemente (3a, 3b, 3c) als ringförmige Scheiben entworfen sind, die nach der Montage, über im Wesentlichen ihren gesamten Außenumfang mit dem oben erwähnten Gehäuse oder den oben erwähnten Teilgehäusen (2a, 2b) in Kontakt stehen.
10. Bügelwalze nach Anspruch 9, **dadurch gekennzeichnet, dass** das oben erwähnte Gehäuse oder die oben erwähnten Teilgehäuse (2a, 2b) als perforierte und plattenförmige Elemente entworfen sind, die derart gebogen sind, dass sie die oben erwähnten kreisförmigen Scheiben (3a, 3b, 3c) umgeben.
11. Bügelvorrichtung, umfassend einen beheizbaren Korb und Bügelwalze (1) nach einem der vorhergehenden Ansprüche.

Revendications

1. Rouleau à repasser (1) pour machine à repasser, qui est muni d'une caisse chauffante, le rouleau à repasser (1) étant muni d'un logement, le rouleau à repasser (1) comprenant un ou plusieurs éléments de renfort (3a, 3b, 3c) qui sont mis en oeuvre pour être raccordés au logement et s'étendent, une fois raccordés à ce logement, dans le logement, les éléments de renfort (3a, 3b, 3c) mentionnés ci-dessus étant mis en oeuvre pour être initialement raccordés de manière amovible au logement et les éléments de renfort (3a, 3b, 3c) mentionnés ci-dessus étant pourvus, sur leur circonférence extérieure, de dents (30, 31) et le logement mentionné ci-dessus étant muni de fentes (24), dans lesquelles ces dents (30, 31) peuvent être introduites, **caractérisé en ce que** les éléments de renfort (3a, 3b, 3c) mentionnés ci-dessus sont pourvus, sur leur circonférence extérieure, d'une première dent et d'une seconde dent (30, 31), la seconde dent (31) ayant une hauteur qui est inférieure à la hauteur de la première dent (30), et la seconde dent (31) étant soudée dans les fentes correspondantes (23) du logement mentionné ci-dessus.
2. Rouleau à repasser selon la revendication 1, **caractérisé en ce que** le logement du rouleau à repasser (1) est formé de deux logements partiels ou plus (2a, 2b) qui sont mis en oeuvre pour être initialement rac-
- cordés de manière amovible aux éléments de renfort (3a, 3b, 3c) mentionnés ci-dessus.
3. Rouleau à repasser selon la revendication 1 ou 2, **caractérisé en ce que** le rouleau à repasser (1) comprend au moins deux éléments de renfort (3a, 3c) qui sont mis en oeuvre pour être initialement raccordés de manière amovible, aux deux extrémités (10) du rouleau à repasser (1), qui sont placées transversalement à la direction longitudinale (A) du rouleau à repasser (1), au logement mentionné ci-dessus ou aux logements partiels (2a, 2b) mentionnés ci-dessus.
4. Rouleau à repasser selon la revendication 3, **caractérisé en ce que** le premier et/ou le second élément de renfort (3a ou 3c) mentionné(s) ci-dessus est ou sont mis en oeuvre pour fixer un aménagement de support de sorte que le rouleau à repasser (1) puisse être monté à rotation dans la machine à repasser.
5. Rouleau à repasser selon la revendication 3 ou 4, **caractérisé en ce que** le rouleau à repasser (1) comprend un ou plusieurs éléments de renfort intermédiaires (3c) qui sont mis en oeuvre pour être initialement raccordés de manière amovible entre les extrémités (10), mentionnées ci-dessus, du rouleau à repasser (1), qui sont placées transversalement à la direction longitudinale (A) du rouleau à repasser (1), au logement mentionné ci-dessus ou aux logements partiels (2a, 2b) mentionnés ci-dessus.
6. Rouleau à repasser selon l'une quelconque des revendications 1 à 5 incluses, **caractérisé en ce que** les éléments de renfort (3a, 3b, 3c) mentionnés ci-dessus sont initialement raccordés de manière amovible au logement mentionné ci-dessus ou aux logements partiels (2a, 2b) mentionnés ci-dessus à l'aide d'un raccordement par encliquetage amovible.
7. Rouleau à repasser selon la revendication 6, **caractérisé en ce que** le raccordement par encliquetage amovible mentionné ci-dessus entre le logement mentionné ci-dessus ou les logements partiels (2a, 2b) mentionnés ci-dessus et un élément de renfort (3a, 3b, 3c) est produit en munissant les deux extrémités du logement ou les deux extrémités (20a, 20b) de chacun des logements partiels (2a, 2b) mentionnés ci-dessus, qui s'étendent dans la direction longitudinale (A) du rouleau à repasser (1), d'un bord (22) replié vers le bas, dans lequel il est formé un évidement (23) qui est conçu de sorte que l'élément de renfort respectif (3a, 3b, 3c) puisse être au moins en partie introduit dans cet évidement (23).
8. Rouleau à repasser selon la revendication 6 ou 7, **caractérisé en ce que** le raccordement par encliquetage amovible mentionné ci-dessus entre le lo-

gement mentionné ci-dessus ou les logements partiels (2a, 2b) mentionnés ci-dessus et un élément de renfort (3a, 3b, 3c) est produit en munissant les deux extrémités (20a, 20b) du logement ou de chacun des logements partiels (2a, 2b) mentionnés ci-dessus, qui s'étendent dans la direction longitudinale (A) du rouleau à repasser (1), d'un bord (22) replié vers le bas et en dotant l'élément de renfort respectif (3a, 3b, 3c) d'un ou plusieurs évidements (23) dans lequel ou lesquels le bord (22) replié vers le bas mentionné ci-dessus peut être introduit au moins en partie.

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9. Rouleau à repasser selon l'une quelconque des revendications précédentes, **caractérisé en ce que** les éléments de renfort (3a, 3b, 3c) mentionnés ci-dessus sont conçus sous la forme de disques annulaires qui, après montage, sont en contact sur sensiblement toute leur circonférence extérieure avec le logement mentionné ci-dessus ou les logements partiels (2a, 2b) mentionnés ci-dessus.

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10. Rouleau à repasser selon la revendication 9, **caractérisé en ce que** le logement mentionné ci-dessus ou les logements partiels (2a, 2b) mentionnés ci-dessus sont conçus sous la forme d'éléments perforés en forme de plaque qui sont incurvés de manière à entourer les disques annulaires (3a, 3b, 3c) mentionnés ci-dessus.

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11. Machine à repasser, comprenant une caisse chauffante et un rouleau à repasser (1) selon l'une quelconque des revendications précédentes.

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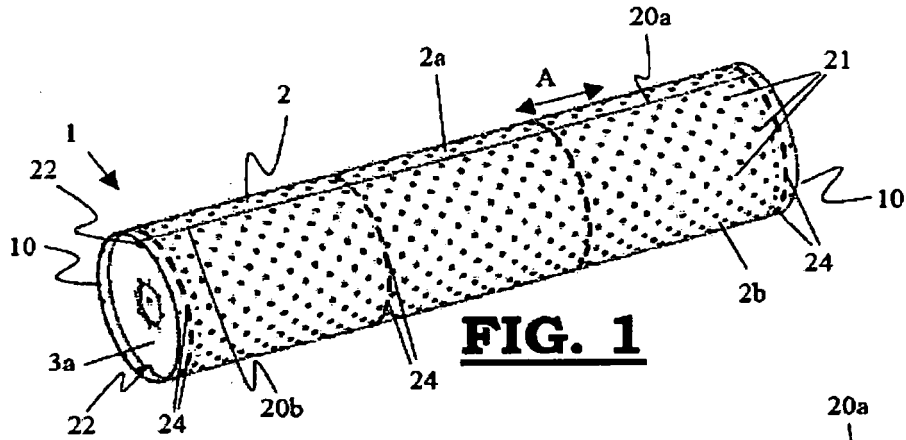


FIG. 1

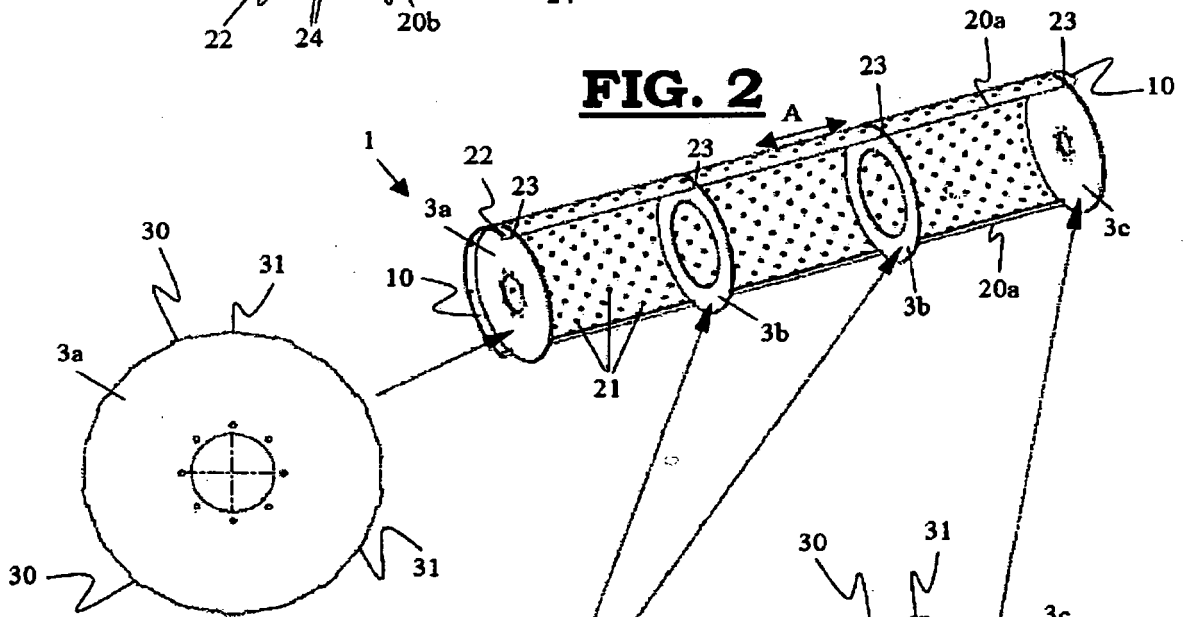


FIG. 2

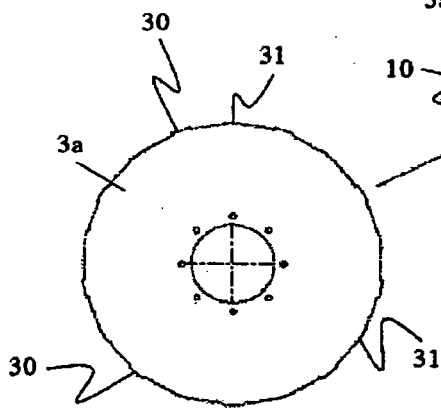


FIG. 3a

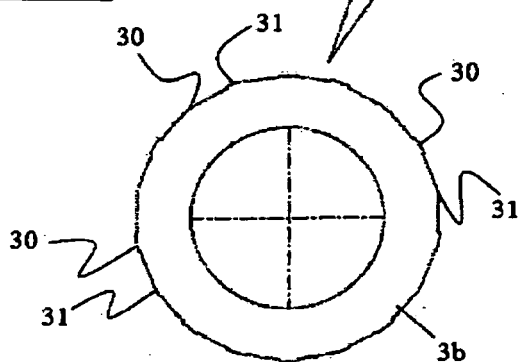


FIG. 3b

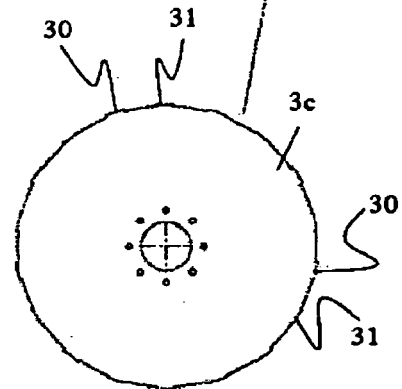


FIG. 3c

REFERENCES CITED IN THE DESCRIPTION

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