

ALLNAMES:("Berndorf Band GmbH")

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Machine translation

1. [2913997](#) DISPOSITIVO DE RETENCIÓN MAGNÉTICO

ES - 07.06.2022

Int.Class [B23Q 1/54](#) Appl.No 18706374 Applicant Berndorf Band GmbH Inventor BADER, Dieter

Dispositivo de mecanizado para el mecanizado de piezas de trabajo [20], preferentemente en forma de lámina o de banda, en particular para soldar, cortar o fresar, teniendo el dispositivo de mecanizado al menos una herramienta de mecanizado [21] y al menos un dispositivo de retención magnético [10], en particular un dispositivo de retención, para fijar temporalmente una pieza de trabajo [20] preferentemente en la zona de trabajo de la herramienta de mecanizado [21], caracterizado porque el dispositivo de retención [10] comprende una superficie de retención [9], al menos un primer imán permanente [11] y al menos un segundo imán permanente [12], estando el al menos un segundo imán permanente [12] montado de manera que puede girar alrededor de un eje de giro [3] en relación con el al menos un primer imán permanente [11], con lo cual la dirección del polo [2] del segundo imán permanente [12] puede girar con respecto a la dirección del polo [1] del primer imán permanente [11], estando el eje de giro [3] del al menos un segundo imán permanente [12] preferentemente en esencia perpendicular a la superficie de retención [9].

2. [WO/2022/109646](#) METAL STRIP PRODUCTION BY GRINDING

WO - 02.06.2022

Int.Class [B23P 15/00](#) Appl.No PCT/AT2021/060449 Applicant BERNDORF BAND GMBH Inventor SIMMEL, Johannes Günther

The invention relates to a method for producing a metal strip [2], in which the metal strip [2] is ground on at least one side [12, 13] over substantially its entire area, characterized in that, in a first step, a transverse curvature in the direction of the strip width [10] is created by straightening work on the metal strip [2], wherein a first side [12] of the metal strip [2] has a convex shape and a second side [13], opposite to the first side [12], of the metal strip [2] has an at least planar or concave shape, and in that, in a second step, by grinding the second side [13] of the metal strip [2], the profile of the strip thickness [11] D is changed in the direction of the strip width [10] to a uniform profile of a value of the strip thickness [11] D [D(x) = constant].

3. [3948135](#) DEVICE FOR STORING ENERGY IN THE FORM OF LATENT HEAT

EP - 09.02.2022

Int.Class [F28D 20/00](#) Appl.No 20721384 Applicant BERNDORF BAND GMBH Inventor PROSCHEK MICHAEL

The invention relates to a device [1] and a method for storing energy in the form of latent heat and for dispensing stored heat energy, wherein the device [1] has at least one phase-changing storage material [4] as a heat store and at least one storage container [2] for accommodating the phase-changing storage material [4], and at least one heat exchanger [5] for removing and transferring stored heat energy from the storage material [4] to a heat transport fluid, wherein the device [1] has at least one endless strip [6], thermally coupled to the at least one heat exchanger, for transporting storage material [4] taken from at least one storage container [2].

4. [2882494](#) PROCEDIMIENTO DE MECANIZADO DE UNA CINTA SIN FIN

ES - 02.12.2021

Int.Class [B24B 7/12](#) Appl.No 17734628 Applicant Berndorf Band GmbH Inventor HOLZINGER, Andreas

Procedimiento para mecanizar una cinta sin fin [1] que tiene un cuerpo de cinta [2] de metal, en donde la cinta sin fin [1] presenta un lado interior de la cinta [3] y un lado exterior de la cinta [4], así como bordes laterales [5] que unen el lado interior de la cinta [3] y el lado exterior de la cinta [4], en una zona [6] alrededor de un punto [7] en la que la cinta sin fin [1] presenta un grosor menor que en otra zona [8] de la cinta sin fin [1], de tal modo que una cantidad de un gradiente [k1] de una desviación de grosor [Δd] en la dirección longitudinal [x] y/o en la dirección transversal de la cinta sin fin [1] es en cada caso menor o igual a 1:1000, en particular menor o igual a 1:4000 o 1:5000, siendo realizada la eliminación de material por medio de rectificación, caracterizado porque, al mismo tiempo que se elimina el material, se ajusta la cinta sin fin [1] en la zona [6] en la que se elimina el material, de tal manera que una cantidad de una pendiente [k2] de una desviación de la planitud [Δp] de la cinta sin fin en la dirección longitudinal [x] y/o transversal de la cinta sin fin [1] es menor o igual a 1:500, en particular inferior o igual a 1:1000, en donde la región [6] de la cinta sin fin [1] en la que se elimina el material está dispuesta entre un cabezal de rectificado giratorio [9] y una placa de asiento [10].

5. [214445351](#) STEEL BELT SURFACE POLISHING DEVICE

CN - 22.10.2021

Int.Class [B24B 21/04](#) Appl.No 202022888331.7 Applicant BERNDORF BAND GMBH Inventor FRANTZ STENNIS

The utility model discloses a steel belt surface polishing device which comprises a main body, a horizontal moving device, an up-down moving device and a polishing device, the horizontal moving device is arranged on the inner side of the main body, the up-down moving device is arranged on the upper side of the main body, and the polishing device is arranged at the left end of the upper side of the main body. The utility model belongs to the technical field of steel belt surface polishing, and particularly relates to a steel belt surface polishing device. And in the steel belt grinding process, the horizontal position is adjusted through the horizontal moving device, the vertical position is adjusted through the vertical moving device, grinding is conducted through the grinding device, and the problem that the grinding efficiency is low in the current market is effectively solved.

6. [3887117](#) METHOD FOR PRODUCING SOLVENT-BASED FOILS OR FILMS

EP - 06.10.2021

Int.Class [B29C 41/28](#) Appl.No 19828186 Applicant BERNDORF BAND GMBH Inventor MORGENBESSER KARL

The invention relates to a method for producing a solvent-based foil or film [23], wherein the foil/film has a width of more than 1.9 m [in particular 2 m or 2.5 m or 4 m] in a finished state, wherein in a step a) at least one material [26] is applied to a moving surface of an endless belt [1] and in a step b) is at least partially dried and/or at least partially cured, wherein evaporating a solvent results in drying and/or curing of the material, and the at least partially dried

and/or at least partially cured material is removed from the surface of the endless belt in a step c), wherein in step a) the material is applied to and uniformly distributed on the endless belt (1) across a width of more than 1.9 m, wherein after step c), in order to finish the foil/film, a portion of more than 1.9 m in width of the material applied to the endless belt (1) in step a) across a width of more than 2 m [preferably of more than 2.5 m or 4 m] is left in the foil or film, after an additional process for drying and/or curing the material, to form the finished foil/film.

7. **WO/2021/151133** DEVICE FOR HEATING AND DRYING AT LEAST ONE PRODUCT MADE FROM A NON-FERROMAGNETIC MATERIAL

WO - 05.08.2021

Int.Class **B29C 35/10** Appl.No PCT/AT2021/060027 Applicant BERNDORF BAND GMBH Inventor PROSCHEK, Michael

The invention relates to a device (1) for heating and drying at least one product (2) made from a non-ferromagnetic material, in particular a TAC film, wherein the device (1) comprises at least one continuous belt (5) made of metal and circulating between at least two rollers (3, 4), wherein the continuous belt (5) has an upper run (6) and a lower run (7) and a belt outer side (6a) of the upper run (6) forms a transport surface for the product (2), wherein the device (1) has at least one heating device (8) for heating the product (2), wherein the at least one heating device (8) is designed as an induction heater and has at least one inductor (9), with the maximum extension thereof being smaller than a belt width (b) of the continuous belt when viewed transverse to a circumferential direction of the continuous belt (5), wherein the at least one inductor (9) extends at least over a centre of the belt and over regions of the continuous belt (5) adjoining both sides of the centre of the belt when viewed in a transverse direction of the continuous belt.

8. **523304** DOPPELBANDPRESSE MIT ZUMINDEST EINER PRESSVORRICHTUNG

AT - 15.07.2021

Int.Class **B30B 5/06** Appl.No A51128/2019 Applicant Berndorf Band GmbH Inventor

Die Erfindung betrifft eine Doppelbandpresse (1) mit zumindest einer Pressvorrichtung (2), wobei die Pressvorrichtung (2) zumindest eine Pressplatte (3) und zumindest ein Gegendruckelement (4) für die Pressplatte (3) aufweist, wobei die zumindest eine Pressplatte (3) und das zumindest eine Gegendruckelement (4) voneinander beabstandet angeordnet sind, wobei Abschnitte eines ersten endlosen und angetriebenen Metallbandes (5) und eines zweiten endlosen und angetriebenen Metallbandes (6) einander gegenüberliegend durch einen zwischen einander zu- gewandten Seiten der Pressplatte (3) und des plattenförmigen Gegendruckelements (4) liegenden Pressspalt (7) hindurch geführt sind, wobei die Pressvorrichtung (2) zumindest einen in Richtung des Gegendruckelements und wieder zurück bewegbar gelagerten Pressstempel (8, 9, 10) mit einer Pressfläche (11, 12, 13) aufweist, wobei die durch den Pressspalt (7) geführten Abschnitte des ersten und des zweiten endlosen Metallbandes (5, 6) zwischen der Pressfläche (11, 12, 13) des zumindest einen Pressstempels (8, 9, 10) und dem zumindest einen Gegendruckelement (4) hindurch geführt sind und die Pressfläche (11, 12, 13) des Pressstempels (8, 9, 10) kleiner ist als eine Fläche der dem zumindest einen Gegendruckelement (4) zugewandten Seite der zumindest einen Pressplatte (3).

9. **WO/2021/119701** DOUBLE BELT PRESS COMPRISING AT LEAST ONE PRESSING DEVICE

WO - 24.06.2021

Int.Class **B30B 5/06** Appl.No PCT/AT2020/060468 Applicant BERNDORF BAND GMBH Inventor KAGER, Franz

The invention relates to a double belt press (1) comprising at least one pressing device (2), wherein: the pressing device (2) comprises at least one pressing plate (3) and at least one counter-pressure element (4) for the pressing plate (3); the at least one pressing plate (3) and the at least one counter-pressure element (4) are arranged at a distance from one another; sections of a first continuous and driven metal belt (5) and of a second continuous and driven metal belt (6) are guided opposite one another through a press nip (7) located between mutually facing sides of the pressing plate (3) and of the planar counter-pressure element (4); the pressing device (2) has at least one pressing ram (8, 9, 10) which has a pressing surface (11, 12, 13) and is mounted so as to be movable in the direction of the counter-pressure element and back again; the sections of the first and of the second continuous metal belt (5, 6) guided through the press nip (7) are guided between the pressing surface (11, 12, 13) of the at least one pressing ram (8, 9, 10) and the at least one counter-pressure element (4); and the pressing surface (11, 12, 13) of the pressing ram (8, 9, 10) is smaller than a surface of the side of the at least one pressing plate (3) facing the at least one counter-pressure element (4).

10. **523193** ENDLOS BAND SOWIE VERFAHREN ZU DESSEN HERSTELLUNG

AT - 15.06.2021

Int.Class **B30B 5/04** Appl.No A51033/2019 Applicant Berndorf Band GmbH Inventor

Die Erfindung betrifft ein Endlosband (1) sowie ein Verfahren zu dessen Herstellung aus einem Flachmaterial aus einem ersten metallischen Werkstoff. Das Flachmaterial ist mittels einer Schweißnaht (2) zu einem endlosen Bandkörper (3) zusammengefügt und weist eine Bandaußenfläche (5) und eine Bandinnenfläche (6) auf. Der erste metallische Werkstoff des Bandkörpers (3) weist einen ersten Härtewert auf. Weiters ist zumindest eine Schicht (8) aus einem zweiten metallischen Werkstoff auf der Bandaußenfläche (5) angeordnet. Der zweite metallische Werkstoff der Schicht (8) weist bezüglich des ersten Härtevalues dazu einen geringeren zweiten Härtewert auf. Die zusätzlich vorgesehene Schicht (8) deckt zumindest die Schweißnaht (2) ab.

