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54 **Device for manufacturing unfired bricks.**

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56 References cited :
GB-A- 1 419 014
NL-C- 70 383
US-A- 1 888 398
US-A- 2 061 497

56 References cited :
Brochure of the Dutch firm Ammeraal "Proces - en Transportbanden", dated 1985
Brochure of the Dutch firm Staal-en Machinebouw, Aberson bv

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Description

The invention relates to a device as described in the preamble of claim 1. This device is known from NL-A 70 383.

In this known device there are problems with the disposal of the trimmed quantity of clay. These quantities of clay are usually carried off sideways with or without auxiliary devices. This however causes problems when use is made of multiple mould containers conveyed parallel to one another.

The invention has for its object to provide a solution to this. This is achieved by a device with the characterizing steps as claimed in claim 1.

By carrying away the excess of clay using a conveyor surface which connects directly onto the trimming device, a large number of mould containers can be employed moving in parallel.

A preferred embodiment has the features as specified in claim 2. Using the belt conveyor the clay is carried away to a point at a distance from the discharge device.

A further embodiment has the characterizing steps according to claim. In order to ensure the removal of the clay carried away by the conveyor surface from this surface the steps according to claim 3 are taken. In order to rid the belt of all the clay before the following cycle the steps according to claim 4 are taken.

The invention will be elucidated on the basis of a preferred embodiment.

Fig. 1 shows schematically the side view of an automatically operating device for manufacturing green bricks according to the invention, and fig. 2 shows on a larger scale the detail II from fig. 1.

Arranged on the endless running conveyor 1 are mould containers 2, which move beneath the clay filling device 3.

The latter injects into the mould containers a quantity of clay which is pressed into the containers by the pressure roller 4. Using a cutting wire 5 which is arranged so as to be stationary the excess clay 6 is trimmed from the moving mould containers. Connecting directly onto the trimming device 5 is the endless running belt conveyor 7 which is mounted so as to be sloping. As a result of the movement in the direction of the arrow 8 the piece of clay is carried against belt conveyor 7 and carried away by it owing to the adhesive qualities of the clay. Belt conveyor 7 carries the piece of clay up to a point close to the discharge end 9 where by means of the cutting wire 10 the clay is released from the belt. The scraper member 11 scrapes off the belt any clay that may still be present on it. The pieces of clay fall onto the roller conveyor 12 which is directed crosswise relative to belt conveyor 7.

As a result of the step according to the invention

multiple mould containers can be transported parallel to one another by conveyor 1 in view of the fact that, owing to the arrangement of belt conveyor 7, disposal of the excess clay cannot obstruct the conveyance of the mould containers.

Claims

1. Device for manufacturing unfired bricks, comprising a conveyor for conveying mould containers in a circular movement, a device for filling said mould containers with clay, a pressure mechanism for pressing the clay into a mould container, and a cutting device for trimming excess clay from the top of a mould container, characterized by an endless belt conveyor running in the direction of the mould container conveyor for the trimmed off clay arranged close to said cutting device.
2. Device as claimed in claim 1, characterized in that a conveyor directed transversely transversely the belt conveyor is arranged at the discharge end thereof.
3. Device as claimed in claim 2, characterized in that a cutting device is placed close to the discharge end of the belt conveyor.
4. Device as claimed in claims 1-3, characterized in that a scraper member is placed close to the belt conveyor.

Patentansprüche

1. Vorrichtung zum Herstellen von ungebrannten Ziegelsteinen mit einer Fördervorrichtung zum Fördern von Formbehältern auf einer kreisförmigen Bewegungsbahn, mit einer Vorrichtung zum Füllen der Formbehälter mit Lehm, mit einem Preßmechanismus zum Pressen des Lehms in einen Formbehälter hinein und mit einer Schneidvorrichtung zum Abtrennen überschüssigen Lehms von der Oberseite eines Formbehälters, gekennzeichnet durch einen endlosen Bandförderer, der in Richtung der Formbehälterförderer für den abgetrennten Lehm läuft und dicht an der Schneidvorrichtung angeordnet ist.
2. Vorrichtung nach Anspruch 1, dadurch gekennzeichnet, daß am Abgabeende der Bandförderer eine in bezug-auf den Bandförderer quergerichtete Fördervorrichtung angeordnet ist.
3. Vorrichtung nach Anspruch 2, dadurch gekennzeichnet, daß eine Schneidvor-

richtung dicht benachbart zum Abgabeende des Bandförderers angeordnet ist.

4. Vorrichtung nach den Ansprüchen 1 bis 3, dadurch gekennzeichnet, daß eine Abstreichvorrichtung dicht benachbart zum Bandförderer angeordnet ist. 5

Revendications 10

1. Dispositif pour la fabrication de briques vertes, comprenant un convoyeur destiné à transporter des récipients formant moules suivant un mouvement circulaire, un dispositif de remplissage d'argile dans lesdits récipients formant moules, un mécanisme compresseur destiné à comprimer l'argile dans un récipient formant moule, et un dispositif de coupe destiné à découper l'argile en surplus de la partie supérieure d'un récipient formant moule, caractérisé en ce qu'il comporte un convoyeur à bande sans fin pour l'argile découpée, ledit convoyeur à bande sans fin étant disposé à proximité du dispositif de coupe et travaillant dans la même direction que celle du convoyeur de récipients formant moules. 15 20 25
2. Dispositif suivant la revendication 1, caractérisé en ce qu'un convoyeur s'étendant transversalement par rapport au convoyeur à bande est disposé à l'extrémité de décharge de celui-ci. 30
3. Dispositif suivant la revendication 2, caractérisé en ce qu'un dispositif de coupe est disposé à proximité de l'extrémité de décharge du convoyeur à bande. 35
4. Dispositif suivant les revendications 1 à 3, caractérisé en ce qu'un organe racleur est disposé à proximité du convoyeur à bande. 40

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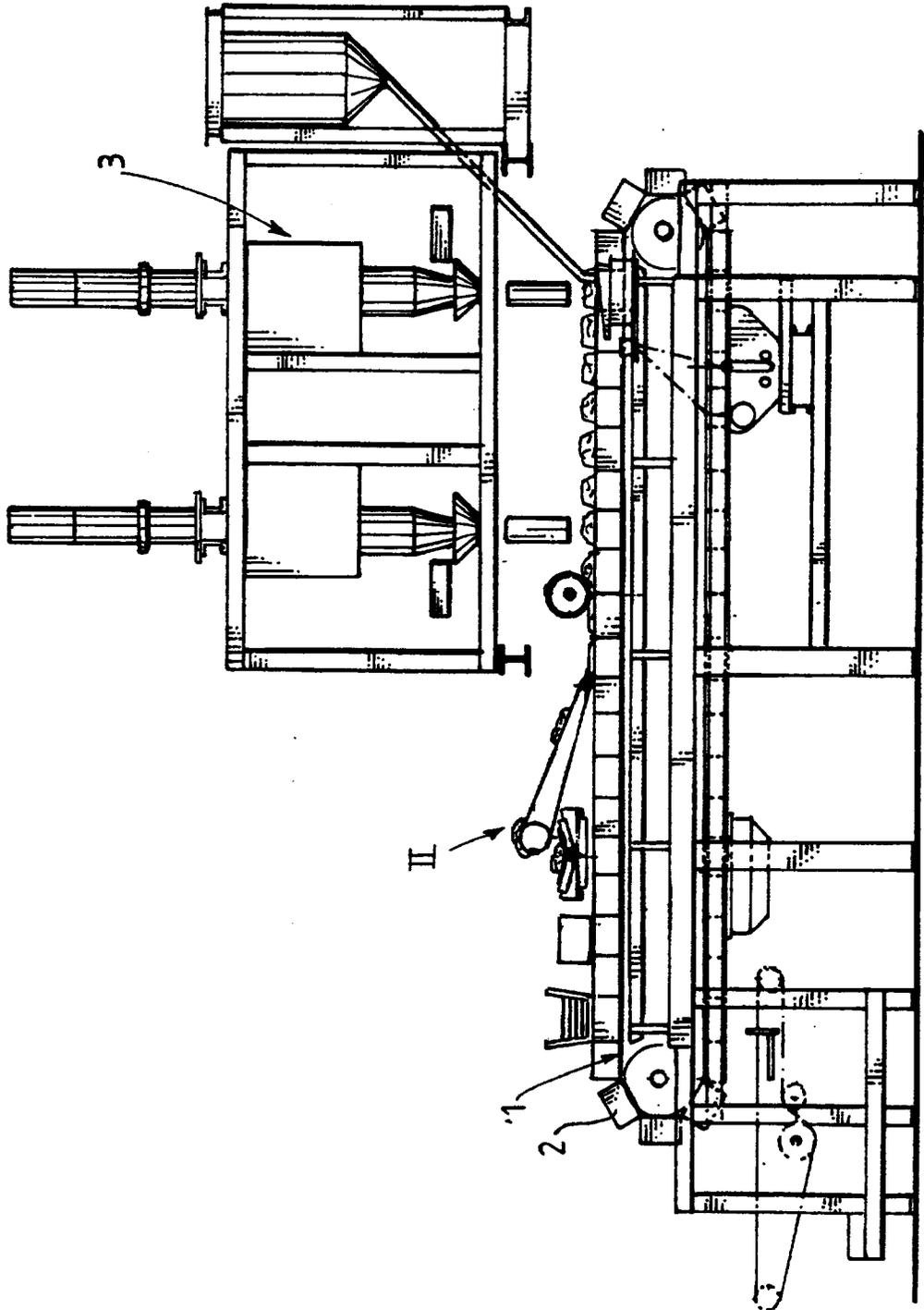


FIG. 1

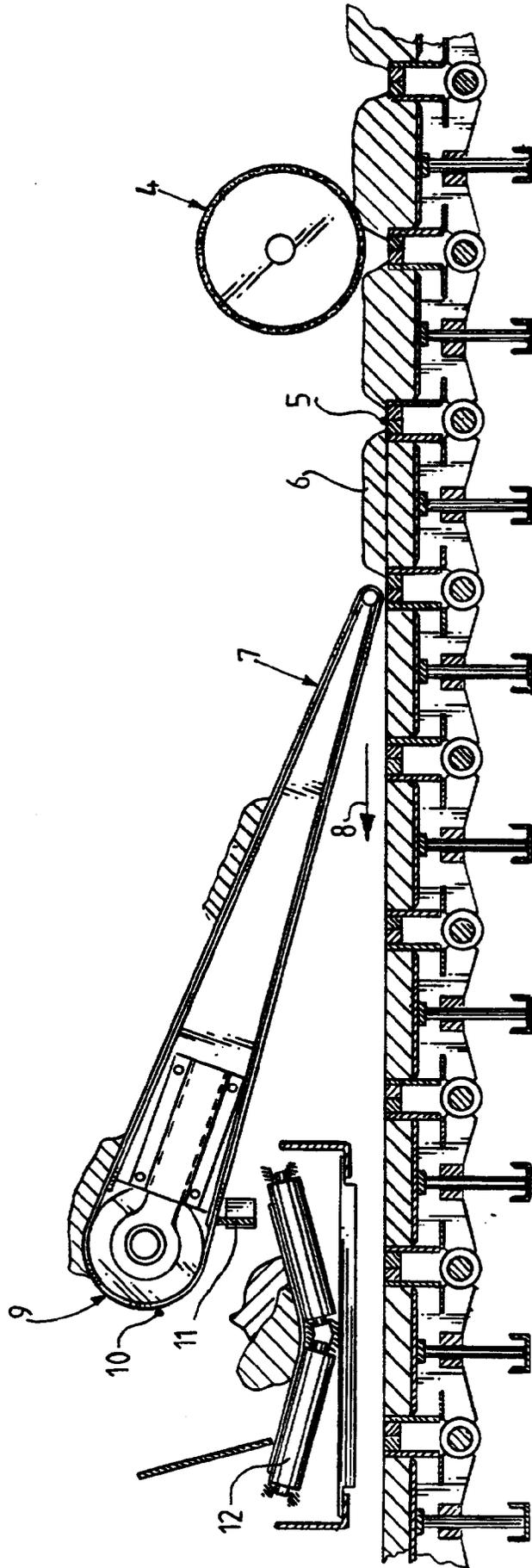


FIG. 2