

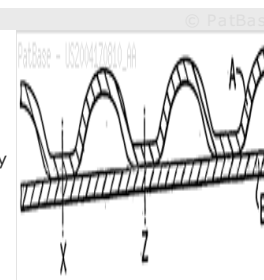
1) Family number: 31026427 (US2004170810A)

LAMINATES OF FILMS AND METHODS AND APPARATUS FOR THE MANUFACTURE

Abstract: Source: US2004170810A A laminate of thermoplastic polymeric films comprises at least one fluted ply A and at least one substantially flat ply B, adhered to one another in bonded zones along the flute crests. The wavelength of the flutes is preferably no more than 3 mm. Ply A has a generally uniform thickness or can have attenuated zones of lesser thickness extending parallel to the flute direction, each bonded zone being located mainly within an attenuated zone. The flutes can be sinuous with crests on both sides of ply A and can be adhered on each side to a ply B, in which case, attenuated zones can be on both sides and can have different widths. The flutes can be filled with filler material, including reinforcement strands, and one or both sides can be perforated. The method and apparatus employ aligned grooved fluting rollers and a grooved laminating roller.

Probable Assignee: RASMUSSEN O B

Earliest Publication Date: 20021227



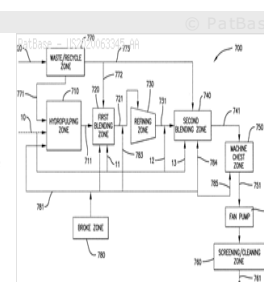
2) Family number: 77813141 (US2020063345A)

WATER REMOVAL BETWEEN WIRE AND WET PRESS OF A PAPER MILL PROCESS

Abstract: Source: US2020063345A The present invention provides compositions comprising cellulose fibers and cellulose ester fibers and wet laid articles made from the compositions, as well as wet laid processes to produce these compositions. More specifically, the present invention provided compositions comprising cellulose fibers and cellulose acetate fibers and wet laid articles made from these compositions as well as wet laid processes to produce these compositions. The present invention also relates to developing a composition, process, wet laid product, or articles exhibiting any one of many desired benefits.

Probable Assignee: EASTMAN CHEMICAL CO

Earliest Publication Date: 20200227



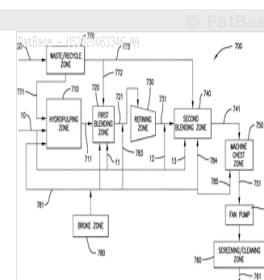
3) Family number: 77813146 (US2020063346A)

PROCESS TO PRODUCE A PAPER ARTICLE COMPRISING CELLULOSE FIBERS AND A STAPLE FIBER

Abstract: Source: US2020063346A The present invention provides compositions comprising cellulose fibers and cellulose ester fibers and wet laid articles made from the compositions, as well as wet laid processes to produce these compositions. More specifically, the present invention provided compositions comprising cellulose fibers and cellulose acetate fibers and wet laid articles made from these compositions as well as wet laid processes to produce these compositions. The present invention also relates to developing a composition, process, wet laid product, or articles exhibiting any one of many desired benefits.

Probable Assignee: EASTMAN CHEMICAL CO

Earliest Publication Date: 20200227



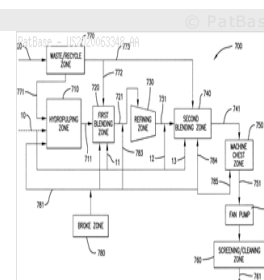
4) Family number: 77813149 (US2020063348A)

SOFT WIPE COMPRISING CELLULOSE ACETATE

Abstract: Source: US2020063348A A soft wipe article is provided comprising a wet-laid sheet which comprises cellulosic fibers and cellulose ester staple fibers, wherein the cellulose ester staple fibers are present in an amount sufficient to provide the wet laid-sheet with a lower density and higher thickness at a given basis weight compared to a 100 percent Cellulose Comparative composition, when processed under similar conditions. The cellulose ester staple fibers can also provide the wet laid-sheet with a higher softness, while maintaining or increasing tear strength, compared to a 100 percent Cellulose Comparative composition, when processed under similar conditions.

Probable Assignee: EASTMAN CHEMICAL CO

Earliest Publication Date: 20200227



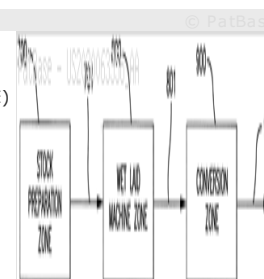
5) Family number: 77813277 (US2020063356A)

COMPOSITION OF MATTER IN STOCK PREPARATION ZONE OF WET LAID PROCESS

Abstract: Source: US2020063356A A composition obtained by combining virgin cellulose fibers, cellulose ester (CE) staple fibers having a denier per filament (DPF) of less than 3, and water, and water. The CE staple fibers can also have a short cut length of less than 6 mm and can be crimped. The compositions, when co-refined, are useful to make wet laid products such as paper, cardboard, and filters that have improved water drainage, air permeability, tensile strength, bulk, burst strength, or stiffness, or a combination of these properties.

Probable Assignee: EASTMAN CHEMICAL CO

Earliest Publication Date: 20200227



Abstract: Source: US2020063350A The present invention provides compositions comprising cellulose fibers and cellulose ester fibers and wet laid articles made from the compositions, as well as wet laid processes to produce these compositions. More specifically, the present invention provided compositions comprising cellulose fibers and cellulose acetate fibers and wet laid articles made from these compositions as well as wet laid processes to produce these compositions. The present invention also relates to developing a composition, process, wet laid product, or articles exhibiting any one of many desired benefits. The present invention relates a filtration article comprising a wet-laid composition comprising cellulose fibers and staple fibers.

7) Family number: 77813152 (US2020063349A)

Abstract: Source: US2020063349A Embodiments of the present invention relate to elongated tubular members that include at least one layer comprising a cellulose ester. In some cases, the cellulose ester may be in the form of staple fibers. The layer may be formed via a wet-laid fiber web that may also include cellulose fibers. The elongated tubular members may be suitable for use with food and/or beverage items as, for example, drinking straws or other similar items.

8) Family number: 77816103 (US2020063362A)

Abstract: Source: US2020063362A A bale of sheets made of waste/recycle cellulose fibers and cellulose ester (CE) staple fibers can be fed to a hydropulper. The CE staple fibers have:

- i. a denier per filament (DPF) of less than 3, or
- ii. a cut length of less than 6 mm, or
- iii. crimping, or
- iv. a combination of any two or more of (i)-(iii).

The bales can be fed and dropped in as entire bales to a hydropulper, or a blend tank directly or indirectly in fluid communication with a hydropulper, using the same feed system employed for feeding cellulose to the hydropulper and avoiding having to defiberize by pulling or drawing fibers from a box container into a hydropulper. The waste/recycle cellulose fibers and CE staple fibers can be co-refined prior to making the bale of sheets.

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graph LR
    A[STOCK PREPARATION ZONE] --> B[HOT LAD MACHINE ZONE]
    B --> C[CONVERSION ZONE]
    D[STOCK PREPARATION ZONE] -- TOP GAS --> E[GAS = INCOMING]
    F[HOT LAD MACHINE ZONE] -- HOT GASES --> G[GAS]
    H[CONVERSION ZONE] -- GAS --> I[GAS]
  
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9) Family number: 77813034 (US2020063342A)

Abstract: Source: US2020063342A The present invention provides compositions comprising cellulose fibers and cellulose ester fibers and wet laid articles made from the compositions, as well as wet laid processes to produce these compositions. More specifically, the present invention provided compositions comprising cellulose fibers and cellulose acetate fibers and wet laid articles made from these compositions as well as wet laid processes to produce these compositions. The present invention also relates to developing a composition, process, wet laid product, or articles exhibiting any one of many the desired benefits. This invention also relates to a process to produce a wet laid article in a paper mill, said process comprising adding cellulose ester staple fiber to a hydropulper zone, and/or to a refining zone, and/or after the refining zone wherein said paper mill process is not substantially modified to allow for said adding of said cellulose ester

10) Family number: 77813148 (US2020063347A)

Abstract: Source: US2020063347A A recycled cellulose pulp composition is provided which comprises recycled cellulosic fibers and cellulose ester staple fibers. The recycled cellulose pulp containing co-refined re-cycled cellulose fibers and cellulose ester staple fibers can be added to a hydropulper and fed back through a refiner to make wet laid products.

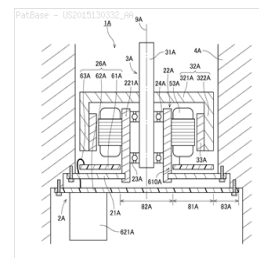
The diagram illustrates a three-zone process. It consists of three rectangular boxes connected by arrows. The first box is labeled 'STOCK PREPARATION ZONE' and has an input 'STOCK' from the left. An arrow points from this box to the second box, labeled 'HOT LEAD MACHINE ZONE'. The second box has an input 'HOT LEAD' from the left and an output 'HOT' to the right. An arrow points from the second box to the third box, labeled 'CONVERSION ZONE'. The third box has an input 'HOT' from the left and an output 'SOL' to the right.

11) Family number: 58685873 (US2015130332A)

Abstract: Source: US2015130332A A motor includes an attachment portion, a first circuit board, and a second circuit board. The attachment portion is fixed to a frame of an apparatus to be driven by the motor. The first circuit board is located axially below coils and axially above the attachment portion. End portions of conducting wires defining the coils are connected to the first circuit board. The second circuit board is located axially below the attachment portion. An AC to DC conversion portion is mounted on the second circuit board. In addition, the attachment portion is arranged between the first and second circuit boards.

Probable Assignee: NIDEC CORP

Earliest Publication Date: 20150311



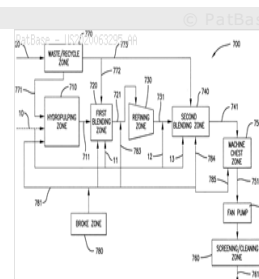
12) Family number: 77812956 (US2020063295A)

RECYCLED DEINKED SHEET ARTICLES

Abstract: Source: US2020063295A A wet-laid fibrous product is provided that comprises recycled cellulosic fibers, cellulose ester staple fibers, and residual recycled ink, where the fibrous product has less ink content compared to the ink content for a 100 percent cellulose comparative fiber wet-laid product, when processed under similar conditions. The wet-laid fibrous product can be formed from a deinked recycled paper pulp slurry, the pulp slurry comprising recycled cellulosic fibers, cellulose ester staple fibers, and ink. A deinking process for the slurry is also provided.

Probable Assignee: EASTMAN CHEM CO

Earliest Publication Date: 20200227



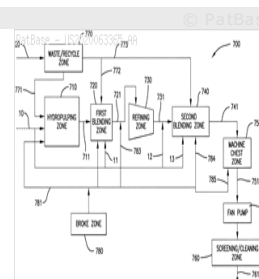
13) Family number: 77816214 (US2020063365A)

COMPOSTABLE WET-LAID ARTICLES COMPRISING CELLULOSE AND CELLULOSE ESTERS

Abstract: Source: US2020063365A Wet laid products including packaging is obtained from co-refined cellulose fibers and synthetic fibers are made biodegradable, and can also be compostable and soil biodegradable. The synthetic fibers include staple cellulose ester fibers. Desirably, such staple cellulose ester fibers have a denier per filament of 3 or less, a cut length of 6 mm or less, are crimped, or are non-round and crimped, and have a degree of substitution of 2.5 or less.

Probable Assignee: EASTMAN CHEM CO

Earliest Publication Date: 20200227



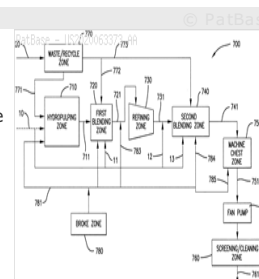
14) Family number: 77816309 (US2020063373A)

MOLDED ARTICLES FROM A FIBER SLURRY

Abstract: Source: US2020063373A Contoured articles formed in a mold from a fiber slurry are provided. The articles comprise a blend of cellulose fibers and cellulose ester, such as cellulose ester staple fibers. The articles are suitable in a wide array of end uses, including as cups, lids, boxes or pouches, storage containers, trays, plates, food trays, cutlery, coffee cups, coffee cup lid, packaging, bowls, clam shells, bottle caps, straws, covers, and packaging inserts.

Probable Assignee: EASTMAN CHEM CO

Earliest Publication Date: 20200227



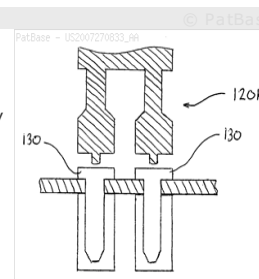
15) Family number: 35082756 (US2007270833A)

METHODS AND DEVICES FOR TRAUMA WELDING

Abstract: Source: US2007270833A The present invention provides a method for stabilizing a fractured bone. The method includes positioning an elongate rod in the medullary canal of the fractured bone and forming a passageway through the cortex of the bone. The passageway extends from the exterior surface of the bone to the medullary canal of the bone. The method also includes creating a bonding region on the elongate rod. The bonding region is generally aligned with the passageway of the cortex. Furthermore, the method includes positioning a fastener in the passageway of the cortex and on the bonding region of the elongate rod and thermally bonding the fastener to the bonding region of the elongate rod while the fastener is positioned in the passageway of the cortex.

Probable Assignee: P TECH LLC

Earliest Publication Date: 20070816



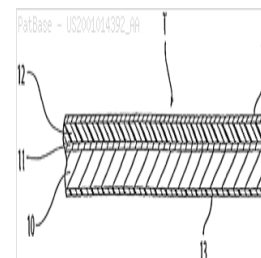
16) Family number: 30048857 (US2001014392A)

PRESSURE-SENSITIVE PAPER-PLASTIC FILM LAMINATE TAPE

Abstract: Source: US2001014392A A pressure-sensitive laminate for adhering to various items. The laminate includes a paper layer; a water-impermeable plastic film layer having a first corona-discharge treated surface which is adhesively laminated to the paper layer to form a paper-plastic film laminate having first and second opposed outer surfaces; and an exposed layer of a pressure-sensitive adhesive coating on one of the first or second outer surfaces. The plastic film portion of the laminate has a strength sufficient to allow the film to be stripped in one piece from an item to which the laminate is adhered. The laminate may, if desired, additionally have a layer of a release agent upon an uncoated one of the first and second opposed outer surfaces of the laminate. A preferred use for the laminate is as a pressure-sensitive tape product.

Probable Assignee: TRU TECH GROUP INC

Earliest Publication Date: 19930710



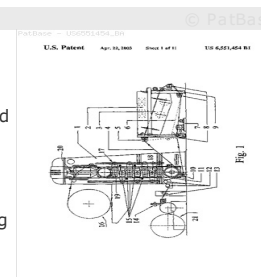
17) Family number: 29371669 (US6551454B)

METHOD FOR PRODUCING COATED CALENDERED PAPER

Abstract: Source: US6551454B Several paper grades are finished in a supercalender (1) or similar calender types in order to increase the smoothness, gloss and other properties of the paper. According to the invention, the method for producing coated and calendered paper or paper board, comprises steps of coating a sheet of paper or paper board and bringing the sheet containing water to a calender (1), leading the sheet in at least one nip formed by two rolls (18, 19) of the calender (1) and imposing simultaneously heat and pressure on the sheet in the nip in order to treat the surface of the web, whereby also water is removed from the sheet, removing water from the sheet before winding in such an extent that the moisture content of the sheet is adjusted to a value of 4.0 percent or less, leading the treated sheet to a winder (21), and winding the sheet on a roll.

Probable Assignee: BLANDIN PAPER CO

Earliest Publication Date: 20000608



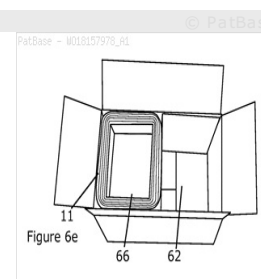
18) Family number: 65570009 (WO1815797A1)

AN INSULATING TRANSPORT AND STORAGE CONTAINER

Abstract: The present invention relates to the field of the transportation and storage of goods and, in particular, to a box or box-like transport container that can provide a high degree of thermal insulation. More particularly, the present invention relates to storage containers that comprise a box or box-like container that can be hand-held. In the field of logistics, there is a widespread requirement to protect a thermally sensitive load to ensure that certain types of produce and materials do not to pass through certain temperature thresholds. It is well known that, for example, vegetables when subject to extremes of temperature that they become flaccid, as the cell structure is broken down through the formation of icicles or through dehydration. In essence, in any transport container with a thermally sensitive load, the rate at which heat passes through the packaging material of the transport container - the amount of heat that flows per unit time through a unit area with a temperature gradient per unit distance must not extend beyond a permitted temperature range for the product. The present invention provides an improved corrugated sheet container.

Probable Assignee: SOFTBOX SYSTEMS LTD

Earliest Publication Date: 20180828



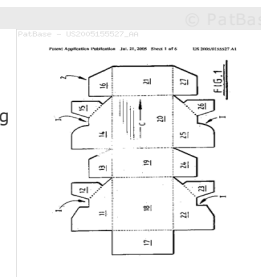
19) Family number: 23521576 (US2005155527A)

CORRUGATED CARDBOARD PALLETS

Abstract: Source: US2005155527A A corrugated cardboard pallet comprising a top sheet (28), a base sheet (29) and at least one connecting member (30 - 38) between said top and said base sheets, the connecting member being moveable to shift the pallet between a relatively flat and a relatively erect form. Each connecting member comprises two substantially parallel opposing main body panels (18, 20) and two pairs of opposing side walls (X, Y) wherein each of one pair of opposing side walls are formed from two interlocking parts (11, 14, 22, 25).

Probable Assignee: MALKEHKHI STEFEN

Earliest Publication Date: 20031009



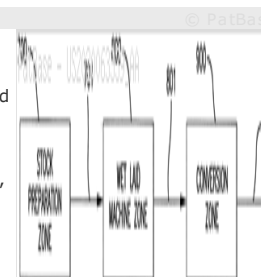
20) Family number: 77813032 (US2020063339A)

COMPOSITION OF MATTER EFFLUENT FROM REFINER OF A WET LAID PROCESS

Abstract: Source: US2020063339A A composition and process for making the composition by co-refining: fibrillated virgin cellulose fibers, waste/recycle cellulose fibers, or both; co-refined cellulose ester (CE) staple fibers having a denier per filament (DPF) of less than 3 and the weight percent of CE staple fibers is less than 30 weight percent, based on the weight of CE staple fibers and said cellulose fibers; and water. The composition can be co-refined to obtain lower Canadian standard freeness yet improved drainage and wet laid products having good tensile strength, air permeability, stiffness, burst strength, and bulk.

Probable Assignee: EASTMAN CHEM CO

Earliest Publication Date: 20200227

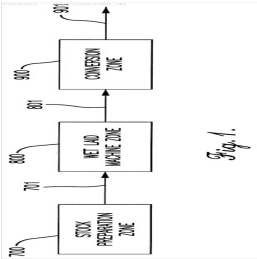


21) Family number: 77816098 (US2020063358A)

COMPOSITION OF MATTER IN A POST-REFINER BLEND ZONE

Abstract: Source: US2020063358A After cellulose fibers and cellulose ester fibers are co-refined, they are fed to a blend tank continuously feeds a wet laid process. The composition in the blend tank includes co-refined cellulose fibers and cellulose ester fibers and one or more additives, and the cellulose ester fibers have a denier per filament (DPF) of less than 3, a cut length of less than 6 mm, crimped, or non-round with a DPF of less than 3.

Probable Assignee: EASTMAN CHEM CO
Earliest Publication Date: 20200227

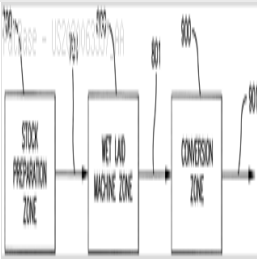


22) Family number: 77813279 (US2020063357A)

COMPOSITION OF MATTER IN A PRE-REFINER BLEND ZONE

Abstract: Source: US2020063357A A composition is contained a blend zone prior to refining containing non-fibrillated virgin cellulose fibers, waste/recycle cellulose fibers or both; cellulose ester fibers, water, and one or more additives comprising fillers, internal sizing agents, biocides, process anti-foaming agents, colorants, optical modifiers, or a combination thereof. An in-line mixer can be used for adding the additives, and the consistency of the composition is lowered relative to a feed of material from a hydropulper.

Probable Assignee: EASTMAN CHEM CO
Earliest Publication Date: 20200227

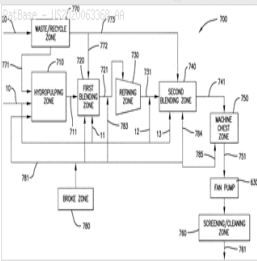


23) Family number: 77816221 (US2020063368A)

PAPER COMPOSITION CELLULOSE AND CELLULOSE ESTER FOR IMPROVED TEXTURING

Abstract: Source: US2020063368A The present invention provides compositions comprising cellulose fibers and cellulose ester fibers and wet laid articles made from the compositions, as well as wet laid processes to produce these compositions. More specifically, the present invention provided compositions comprising cellulose fibers and cellulose acetate fibers and wet laid articles made from these compositions as well as wet laid processes to produce these compositions. The present invention also relates to composition, process, wet laid product, or articles exhibiting any one of many desired benefits. The invention also relates to a composition comprising cellulose fiber and a staple fiber exhibiting improved texturing.

Probable Assignee: EASTMAN CHEM CO
Earliest Publication Date: 20200227

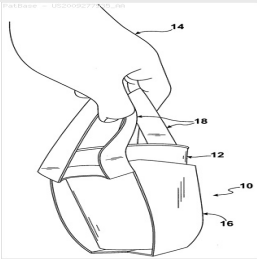


24) Family number: 43984609 (US2009277935A)

SINGLE-SHEETED-TYPE AND DUAL-HANDLED-TYPE CARRIER FOR SUSPENDING A DRINKING CUP BY ONE HAND AND METHOD

Abstract: Source: US2009277935A A single-sheeted-type and dual-handled-type carrier for suspending a drinking cup by one hand and method. The carrier includes a single sheet blank. The single sheet blank is rectangular-shaped, planar, and cut and folded into a specific configuration having dual handles for suspending the drinking cup from the one hand.

Probable Assignee: HANSON VIOLET
Earliest Publication Date: 20091112

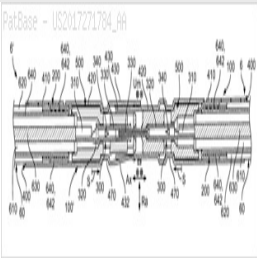


25) Family number: 67005758 (US2017271784A)

ELECTRICAL CONNECTION DEVICE, A METHOD OF MANUFACTURING AN ELECTRICAL CABLE AND A MANUFACTURED ELECTRICAL COAXIAL CABLE

Abstract: Source: US2017271784A An electrical connection device comprises a cable, a ferrule, and a first electrical contact. The cable has an outer conductor surrounding an inner conductor. The ferrule is mechanically connected to the outer conductor. The first electrical contact is electrically connected to the inner conductor.

Probable Assignee: TE CONNECTIVITY LTD
Earliest Publication Date: 20170920



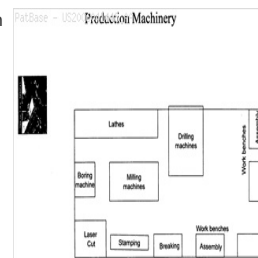
26) Family number: 32633848 (US2006041448A)

NUMBER OF NEW AND UNIQUE MANUFACTURING AND ASSEMBLY METHODS AND PROCESSES TO COST EFFECTIVELY REFIT AND MARKET LEGACY IMPLEMENTS LIKE "THE GILHOLLIE" PRESENTLY NAMES "THE WILI GRIP" TM

Abstract: Source: US2006041448A The invention: involves a unique set of mass production process and evaluation tools to reappraise intricate otherwise costly products to produce or reproduce and manufacture them best in a high cost of living society and low cost of living society. The techniques described here are to specifically bring back a legacy kitchen aids tools, products and other such devices like (The Gilhoolie renamed the WiliGrip(TM)). "The Wili Grip" is a perfect example of intricate craftsmanship that was possible to make when labor was inexpensive in the United States and other industrial countries but has become more difficult to reproduce or compete without inexpensive labor. The invention teaches a variety of metal fabrication production techniques designed to provide technically advanced nations like the US a competitive set of modalities to maintain jobs domestically and compete with low cost labor operations world wide. The production technologies are not limited to aiding industrialized countries, but also presented to teach world leaders, commercial interests and societies how to plan the best use of their assets and technology to proficiently develop competitive commercial product progressively and reduce negative environmental and socio economic impacts, due to gaps in production technology.

Probable Assignee: PATTERSON ROBBIE L

Earliest Publication Date: 20060223



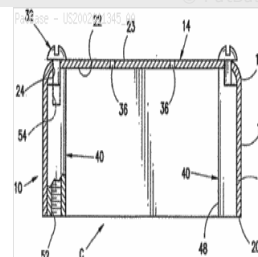
27) Family number: 28160521 (US2002011345A)

ELECTRICAL BOX WITH AUXILIARY CAVITIES AND, FIXTURE SUPPORT HAVING FITTED PORTION

Abstract: Source: US2002011345A An electrical junction box or mounting assembly includes a box having a top wall and a side wall. The side wall extends downwardly away from the top wall and defines a cavity therein. A fixture support is disposed in the cavity. A recess or removed portion is provided on the support, and the removed portion is configured for receiving the inner face of the radiused portion of the box disposed between the top wall and side wall so as to not interfere therewith. A threaded hole for receiving fasteners of a fixture to be supported thereby may be provided on the fixture support. Preferably, the fixture support is sufficiently smooth for preventing wear to plastic-coated electrical wire which engages exposed surfaces of the fixture support.

Probable Assignee: REIKER ENTERPRISES OF NORTHWEST FLORIDA INC

Earliest Publication Date: 19970826



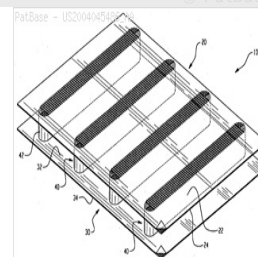
28) Family number: 29026301 (US2004045486A)

LIGHTWEIGHT WOOD SUBSTITUTE SUPPORT MEMBER

Abstract: Source: US2004045486A The invention relates to a lightweight support member or article prepared from corrugated paper which is utilized as a replacement for wood articles such as logs, boards, planks and the like. The support members have a high strength to weight ratio and save on transportation and fuel costs. The support members are constructed as a continuous or semi-continuous, flattened or elongated wind of corrugated paper around a core or central area.

Probable Assignee: ST MARYS BOX CO INC

Earliest Publication Date: 20030902



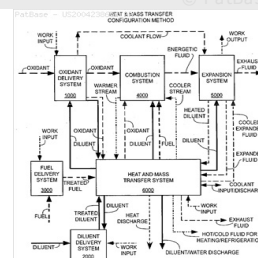
29) Family number: 30754437 (US2004238654A)

THERMODYNAMIC CYCLES USING THERMAL DILUENT

Abstract: Source: US2004238654A A thermodynamic system that produces mechanical, electrical power, and/or fluid streams for heating or cooling. The cycle contains a combustion system that produces an energetic fluid by combustion of a fuel with an oxidant. A thermal diluent may be used in the cycle to improve performance, including but not limited to power, efficiency, economics, emissions, dynamic and off-peak load performance, and/or turbine inlet temperature (TIT) regulation and cooling heated components. The cycle preferably includes a heat recovery system and a condenser or other means to recover and recycle heat and the thermal diluent from the energetic fluid to improve the cycle thermodynamic efficiency and reduce energy conversion costs. The cycle may also include controls for temperatures, pressures, and flow rates throughout the cycle, and controls power output, efficiency, and energetic fluid composition.

Probable Assignee: VAST POWER PORTFOLIO LLC

Earliest Publication Date: 20040805



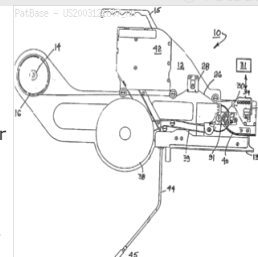
30) Family number: 28821055 (US2003121607A)

SURFACE MOUNT ASSEMBLY SYSTEM WITH INTEGRAL LABEL FEEDER

Abstract: Source: US2003121607A The present invention is a method and apparatus conveying a roll of liner stock bearing removably adhered components such as labels. The liner is pulled through the feeder by a capstan drive having opposed fluted nip rollers driven by a stepper motor. Advance of the stepper motor is controlled by a programmable electronic controller. The lined labels are led through a tensioner and around an acute-angle peeler edge which separates the labels from the liner. The peeling action advances a label onto a platform comprising a bed of rollers having an inherently low-adherence surface. Preferably the rollers are undercut to form circumferential ridges and reduce the surface area in contact with the label adhesive and to minimize adherence thereto. When peeling of a label is completed, the label has been advanced onto the roller bed to precisely the proper location for acquisition by a pick-and-place machine. The presence of a label on the platform is confirmed by a sensor that signals the controller to stop further liner advance. The signal also serves to reset the feeder for advance of the next label after the first label is picked from the roller bed.

Probable Assignee: UI HOLDING CO

Earliest Publication Date: 20030703



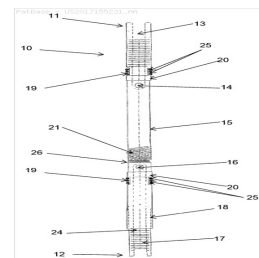
31) Family number: 61320621 (US2017155231A)

CORONA DISCHARGE CELLS

Abstract: Source: US2017155231A A corona discharge apparatus comprising: (a) an elongate inner electrode, (b) an elongate dielectric sleeve mounted on the inner electrode, (c) an elongate outer electrode mounted on the dielectric sleeve, and (d) an ozone-producing region over which the outer electrode extends, the ozone-producing region having an inlet end and an outlet end, the ozone-producing region defined by three sealing members at the inlet end thereof and three sealing members at the outlet end thereof, the sealing members forming a seal between the inner electrode and the dielectric sleeve.

Probable Assignee: BRAUER IND PTY LTD

Earliest Publication Date: 20160107



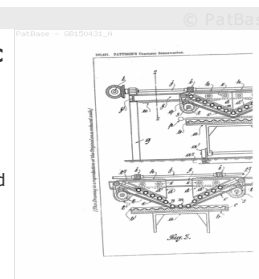
32) Family number: 18224240 (GB150431A)

IMPROVEMENTS IN AND RELATING TO THE CORRUGATING OR LIKE TREATMENT OF SHEET PLASTIC MATERIAL

Abstract: Source: GB150431A 150,431. Pattison, W. June 2, 1919. Pleating, kilting, goffering, and crimping.- In corrugating or shaping asbestos cement sheets and like plastic materials, a sheet of the material is supported on boards o having eyes p by which they are secured to pins q on eyes r carried by brackets d having slots d<1> in which the ends of a chain of linked rollers m, acting as the upper former, run. The brackets d carry racks h engaged by right and left hand worm i mounted on a shaft which may be driven by belt gearing in either direction. The rotation of the shaft j separates the brackets d and the boards o. The sheet is deposited on a moulding-plate c, the rollers m shaping the sheet as it is delivered thereon, commencing at the centre and thus avoiding thinning and fracture due to stretching and friction. The rollers m are connected by a cable t<2> to a drum t, a pinion on which, by engaging rack teeth u raises the rollers while the brackets d approach each other and lowers them while the brackets separate. The table b is mounted on rails so that the formed sheet may be removed and another table placed in position. The apparatus may be used to corrugate sheets at intervals of their width and by suitably shaped moulding plates, and bars of corresponding shape in place of the rollers m, cave gutters, channels, copings, sections, angles, and like may be made.

Probable Assignee: WILLIAM PATTISON

Earliest Publication Date: 19200902



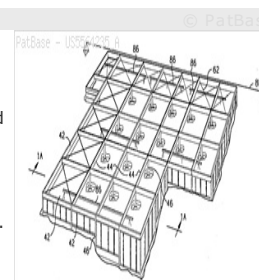
33) Family number: 30220580 (US5564235A)

FOUNDATION AND FLOOR CONSTRUCTION MEANS

Abstract: Source: US5564235A A foundation structure comprises a plurality of light metal parts which assemble and secure in place prior to placement of foundation in situ concrete. Assemblage is supported by coarsely threaded rods which screw directly into earth and attach to parts by various methods. Some parts remain in place as permanent supporting members for superimposed structure. Others, which generally form surfaces of foundation concrete, subsequently relocate to become either similar permanent structural members, or inventory for subsequent projects. Use of a computer aided design program assists in optimal configuration of parts, and creates a list of parts with necessary cut and piecemark information for automated fabrication of any particular length parts. This information, along with a computer produced schematic plan, allows use of parts as collocation elements which define a distinct foundation design by simple field assembly. Variations in assemblage of parts accommodate requirements of site, user needs, and materials of subsequent structure. Specific versions offer an integral joist floor structure, a free standing wall, or a concrete slab on grade. Interface with subsequently superimposed walls is specific to those of either framed members, or concrete type materials.

Probable Assignee: BUTLER MICHAEL G

Earliest Publication Date: 19960307



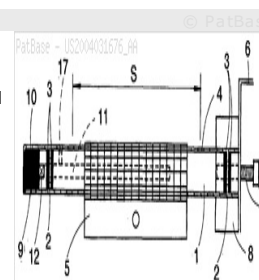
34) Family number: 20727734 (US2004031676A)

CORONA DISCHARGE CELLS AND METHODS OF USE

Abstract: Source: US2004031676A Corona discharge cells for the production of ozone are respectively constructed of inner electrodes fabricated from metal bar, a dielectric sleeve and outer electrodes. Spacers and/or sealing rings isolate a corona discharge producing region from ambient conditions. The surfaces of the inner electrodes can be roughed to enhance ozone production within the corona discharge producing region.

Probable Assignee: HEAD START TECHNOLOGIES LTD

Earliest Publication Date: 20020221



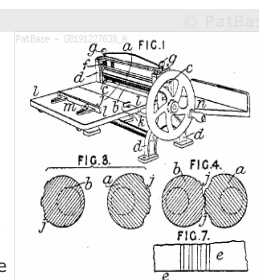
35) Family number: 37023019 (GB191227638A)

IMPROVEMENTS IN OR RELATING TO CREASING OR BENDING MACHINES, FOR PAPER, CARD BOARD, TEXTILE FABRICS, OR ANALOGOUS MATERIALS.

Abstract: Source: GB191227638A 27,638. Hircock, J. T. Nov. 30. Bending, creasing, and the like.-A machine for creasing or bending paper, cardboard, fabrics, and c., in the making of boxes, stationery, book covers, and c., is constructed with rollers having longitudinal flutings which produce the creases and c., the remaining portions of the rollers being formed eccentrically to permit of the material being fed between them. As shown, the work is fed over a table l, Fig. 1, fitted with side and end gauges k, m, between rollers a, b, Figs. 3 and 4, mounted in bearings c in a frame d, the bearings being preferably removable and adjustable, and being controlled by springs f and screws g to vary the pressure of the rollers on the work. The rollers are formed with engaging recesses and flutings j which form creases in the work e, as shown in Fig. 7. The portions of the rollers carrying the flutings j are concentric to the journals of the rollers, but the other parts are eccentric and produce a space, as shown in Fig. 3, to enable the blanks to be fed forwards. A delivery table n is provided.

Probable Assignee: HIRCOCK JOHN THOMAS

Earliest Publication Date: 19131023



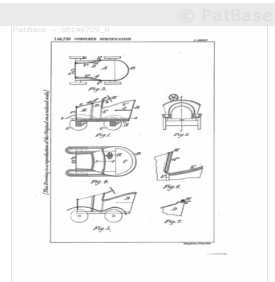
36) Family number: 18144403 (GB146729A)

NOVEL OR IMPROVED CONSTRUCTION OF TOY MOTOR VEHICLES

Abstract: Source: GB146729A 146,729. Anslow, T. July 28, 1919. Mechanical and like. toys.-The body of a toy motor car consists of a curved sheet of metal B secured at its lower edge to a wooden floor A. The dash D is also a curved sheet of metal secured at its ends to the floor A and along one edge to the body B by an overlapped joint b<2>. The upper edge of the body is formed with a bead b<1> and a single wire lies within this bead and another bead d<1> formed on the edge of the dash. The bonnet E, also a curved sheet of metal, is secured at its ends to the base and has one edge d<2> crimped to engage a similar crimping in the dash.

Probable Assignee: THOMAS ANSLOW JUNIOR

Earliest Publication Date: 19200715



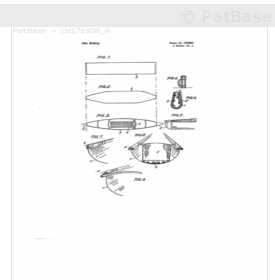
37) Family number: 24969179 (CH171938A)

ZERLEG- UND ZUSAMMENLEGBARES BOOT. DISMANTLED AND RE FOLDABLE BOAT. (MACHINE TRANSLATION)

Abstract: Source: CH171938A 1. Boot nach Patentanspruch I, dadurch ge kennzeichnet, dass der Anschlussrand der Kappen an die Bootskoerperhaut mit Ver staerkungsleisten, sowie mit Halte- und Spannschrauben fuer die Haut versehen ist. z. . 1 Boat according to claim I, characterized in that the terminal edge of the caps staerkungsleisten to the Bootskoerperhaut with United, and is provided with holding and clamping screws for the skin. z.

Probable Assignee: HELLWIG UDO

Earliest Publication Date: 19340915



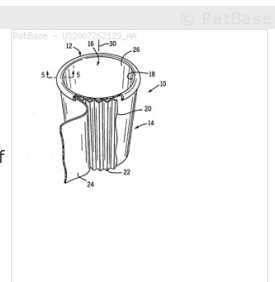
38) Family number: 40810464 (US2007262129A)

METHOD FOR FORMING A CONTAINER WITH CORRUGATED WALL AND ROLLED LIP

Abstract: Source: US2007262129A A method of forming a paper container uses a three-ply corrugated material having at an outer sheet of paper that may be stretched circumferentially to permit subsequent rolling of the corrugated material about a mandrel and an inner sheet of paper that can be stretched circumferentially to assist in rolling the lip of the cup and/or attaching the bottom to the cup. An extensible paper having two axes of extension of over four percent can be used for one or both of the paper layers.

Probable Assignee: ZADRAVETZ ROBERT B

Earliest Publication Date: 20071115



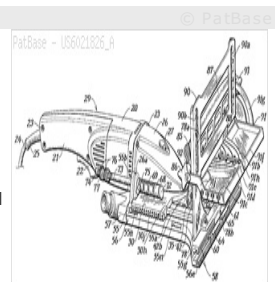
39) Family number: 29375186 (US6021826A)

POWERED CUTTING SAW SYSTEM

Abstract: Source: US6021826A A plate-joinery system includes a chain-saw plate joiner where the cutting mechanism includes a cutting-chain driven about a saw-bar. The cutting mechanism of the chain-saw plate joiner may be advanced on rails to one of a set of predetermined depths. The increased recess depth allowed by the chain-saw and the resultant increase in both glueable surface area and mechanical engagement permit high-strength right-angle joints to be made with the speed of conventional plate-joinery. Plate-joints of more conventional proportion may also be made. The plate joinery system also includes specialty plate configurations and compatible fasteners that permit many joints to be rapidly assembled without resort to either manual glue application or external clamps. A series of high-precision, low-friction cutting devices suitable for general introduction is also described.

Probable Assignee: DANIELL STEPHEN S

Earliest Publication Date: 19981126



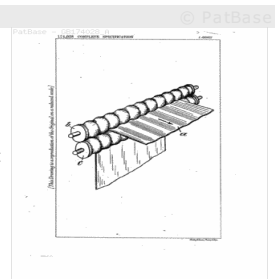
40) Family number: 18209706 (GB174028A)

IMPROVEMENTS IN PAPER FEED AND DELIVERY APPARATUS FOR ROLLER COPYING MACHINES

Abstract: Source: GB174028A 174,028. Deutsche Maschinenbauund-Vertriebs-Ges. Jan. 10, 1921, [Convention date]. Sheet carriers and forwarders; delivery apparatus.-To facilitate the feed motion, particularly of thin paper in the case of paper working machines such as copying-machines employed in offices, the stiffness of the paper is increased by 'crimping or fluting transversely, as with rollers b, c, by which the paper is deformed sufficiently as not to disappear at once but gradually to disappear of its own accord. In a copying-machine, one pair of rollers may be provided for the originals and another for the copies. The rollers are formed with flutings, the flutings of one roller being staggered relatively to those of the other. The rollers are prevented from bearing tightly on the paper by being spaced apart more than the thickness of the paper.

Probable Assignee: MASCHB UND VERTRIEBS GES MIT B

Earliest Publication Date: 19220525



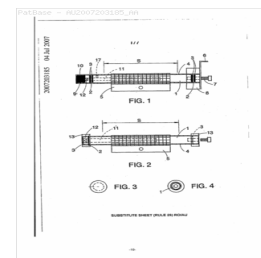
41) Family number: 35869929 (AU2007203185A)

CORONA DISCHARGE CELLS AND METHODS OF USE

Abstract: Source: AU2007203185A AMWIN'sq e p.W aenvt irwention thme~ 's pnmv'ded a cc'tona ldtssOlare ar ebn"gate inner Oct~e' n elqgae e~ti sl"-voi rmcrrd Or the iiiint electrode, an 00 and kngate Outwf essewarsunted, on the dteitttk sleeve, abt pair of spaced sei~ e bibewo ti inrektcd n Uhe iielsdrt whc ejeine oznw'~~~l einoe the outer elefde aAan.s 1// 17 ssi I 3 (A1 3 4 1z~A I11 mu i L' LL -41 4 0- 9' 12 Fig. 1 2 ,j./3 11 Fig. 2 tLI1 Fig. 3 Fig. 4

Probable Assignee: HEAD START TECHNOLOGIES LTD

Earliest Publication Date: 20070809



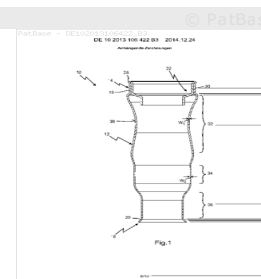
42) Family number: 58126269 (DE102013106422B3)

VERFAHREN ZUM HERSTELLEN EINES ABROLLKOLBENS FUER EINE LUFTFEDER FUER KRAFTFAHRZEUGE SOWIE DERARTIGER ABROLLKOLBEN METHOD FOR PRODUCING A ROLLING PISTON FOR A AIR SPRING FOR MOTOR VEHICLES AND SUCH ROLLING PISTON (MACHINE TRANSLATION)

Abstract: Source: DE102013106422B3 Bei einem Verfahren zum Herstellen eines Abrollkolbens (10) fuer eine Luftfeder fuer ein Kraftfahrzeug, wobei der Abrollkolben (10) ein rohrfoermiges Hohlprofil (12) aufweist, das an einem ersten Laengsende (14) einen Balgsitz (16) zum Anbringen eines Balges und an einem zweiten Laengsende (18) einen Dichtsitz (20) zum Anbringen einer Dichtung aufweist, wird zunaechst eine Vorstufe (40) des Hohlprofils (12) in Form eines Tiefziehteils gefertigt, wobei die Vorstufe (40) des Hohlprofils (12) in einem ersten Bereich mit einer groesseren Wandstaerke (W1) geformt wird als in einem vom ersten Bereich verschiedenen zweiten Bereich, und dass in einem nachfolgenden Schritt der erste Bereich durch Druucken ausgeformt wird. Ferner wird ein derart hergestellter Abrollkolben beschrieben. In a method for manufacturing a roll-off piston (10) for an air spring for a motor vehicle, the roll-off piston (10) has a rohrfoermiges hollow profile (12) at a first Laengsende (14) has a Balgsitz (16) for attaching a bellows and at a second Laengsende (18) has a sealing seat (20) for mounting a seal is first made a precursor (40) of the hollow profile (12) in the form of a deep-drawn part, wherein said precursor (40) of the hollow profile (12) in a first region having a greater Wall Thickness (W1) is formed than in a second region different from the first region, and that is formed in a subsequent step, the first region by pressing. Furthermore, a rolling piston prepared in this manner is described.

Probable Assignee: PROGRESS WERK OBERKIRCH AG

Earliest Publication Date: 20141224



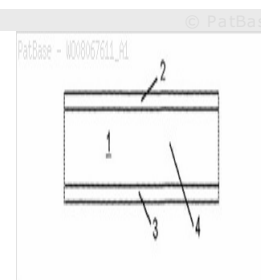
43) Family number: 41913801 (WO08067611A1)

PARTITIONING

Abstract: Rigid, non-woven fibre partitioning (1) that is constructed from a number of bonded-together layers is strong and has good acoustic properties. It comprises two outer layers (2) and (3) preferably being polyethylene terephthalate (PET) fibre layers, and the one or more inner layers (4) preferably being made of recycled material. Preferably, there are two outer layers of virgin PET, surrounding a core layer of recycled materials, such as of recycled PET fibre, or else of other fabric materials. Generally, the recycled materials are fabric- or felt- like materials that have been processed to form a fibrous layer, most preferably with the inclusion of some PET fibre, such as low melting point PET fibres. This partitioning can be installed as room dividers or screening, demountable walls, or as workstation surrounds or pin-boards, for example.

Probable Assignee: WOVEN IMAGE PTY LTD

Earliest Publication Date: 20080612



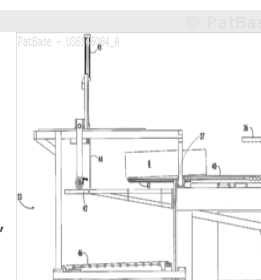
44) Family number: 12665315 (US6146084A)

AUTOMATED BUNDLING AND STACKING OF FOLDED CORRUGATED BOXES

Abstract: Source: US6146084A A method and apparatus are disclosed for making and stacking bundles of corrugated folded boxes into accurate loads. The method comprises advancing a squared bundle of flattened folded glued corrugated boxes along a conveyor while applying a compressing force to the bundle in a direction that bears against the glued portions of the boxes in the bundle, lowering the squared first discrete bundle from the conveyor onto the upper surface of the lift while maintaining the bundle in its squared orientation, squaring a succeeding discrete bundle of folded glued boxes while the first bundle is on the conveyor or the lift, advancing a succeeding squared bundle along the conveyor to the position above the lift while applying the compressing force to the bundle, lowering the succeeding bundle onto the top of the first bundle while maintaining the succeeding bundle in its squared orientation and while orienting the succeeding bundle to match the first bundle while the first bundle is on the lift to form an aligned stack of both bundles, and discharging the aligned stack from the lift. The apparatus includes a squaring station for receiving individual folded corrugated boxes and squaring the boxes into a bundle, a conveyor for advancing a squared bundle of folded boxes from the squaring station, a lift adjacent the conveyor for successively receiving squared bundles from the conveyor, means for delivering a squared bundle from the conveyor to the lift positioned below the plane of the conveyor, and an exit conveyor for discharging a stack of bundles from the lift.

Probable Assignee: WV DOYLE ENTERPRISES INC

Earliest Publication Date: 20001114



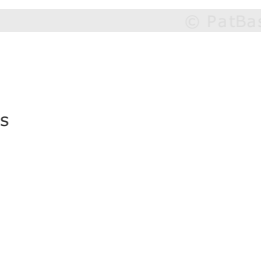
45) Family number: 26284916 (CH169667A)

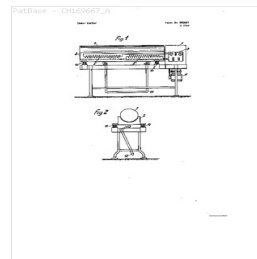
ELEKTRISCHE BUEGELMASCHINE MIT SPARSCHALTUNG. ELECTRICAL BUEGELMASCHINE WITH SAVING CIRCUIT. (MACHINE TRANSLATION)

Abstract: Source: CH169667A 1. Verfahren gemaess Patentanspruch, dadurch gekenn zeichnet, dass die Dicke des Textilmaterials am Einlassende des Stauraums sprunghaft erhoeht wird. . 1 The method according to claim, characterized in that the thickness of the fabric is increased is leaps and bounds at the inlet end of the storage space.

Probable Assignee: LOCHER OSKAR

Earliest Publication Date: 19340615

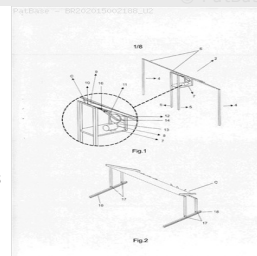




46) Family number: 68762272 (BR202015002188U)

MAQUINA PARA A FABRICACAO DE BLOCOS DE CONCRETOS E SIMILARES MACHINE FOR MANUFACTURING CONCRETE BLOCKS AND THE LIKE (MACHINE TRANSLATION)

Abstract: Source: BR202015002188U RESUMO "MAOUfNA RARA A RABRfCApAO DE BLOCOS DE CONCRETOS ESfMfLARES", Este projeto e da area de pre-moldados de concreto e acessorios da construcao civil. Refere-se o presente objeto a uma maquina para a fabricacao de blocos estruturais de concreto, construida em ferro, dividida em dois modwios: o modulo de espalhamento e a prensa. O modulo de espaihamento e formado por duas traves, uma baixa e mais larga, a outra mais estreita e mais alta, possuindo travessoes de forma triangular, sobre os quais e posicionada uma calha. A calha, sobre a qual e despejado o concreto para a fabricacao do bloco estrutural de concreto, e presa apenas na sua parte superior sobre o travessao da trave mais alta por meio de um eixo permitindo a calha o movimento rotacional. As traves estao interligadas entre si por meio da mesa onde e fixado o motor eletrico responsavel pelo movimento de vai-e-vem da calha. RABRfCApAO "MAOUfNA SUMMARY DIAGRAM OF CONCRETES ESfMfLARES rare", this design and the precast concrete and area of civil building accessories. The present subject matter relates to a machine for manufacturing concrete structural blocks, constructed of iron, divided into two modwios: spreading module and the press. Espaihamento module is formed by two beams, a low is wider, the other narrower and higher, having triangular shaped beams, over which is positioned a trough. The chute, onto which is poured the concrete for the manufacture of concrete structural block, is attached only at its top on higher beam beam via a shaft allowing the trough rotational motion. The beams are interconnected with each other via table where electric motor is fixed to the responsible for shuttling movement of the chute.



Probable Assignee: JOAO QUEIROZ ANUNCIACAO

Earliest Publication Date: 20170912