

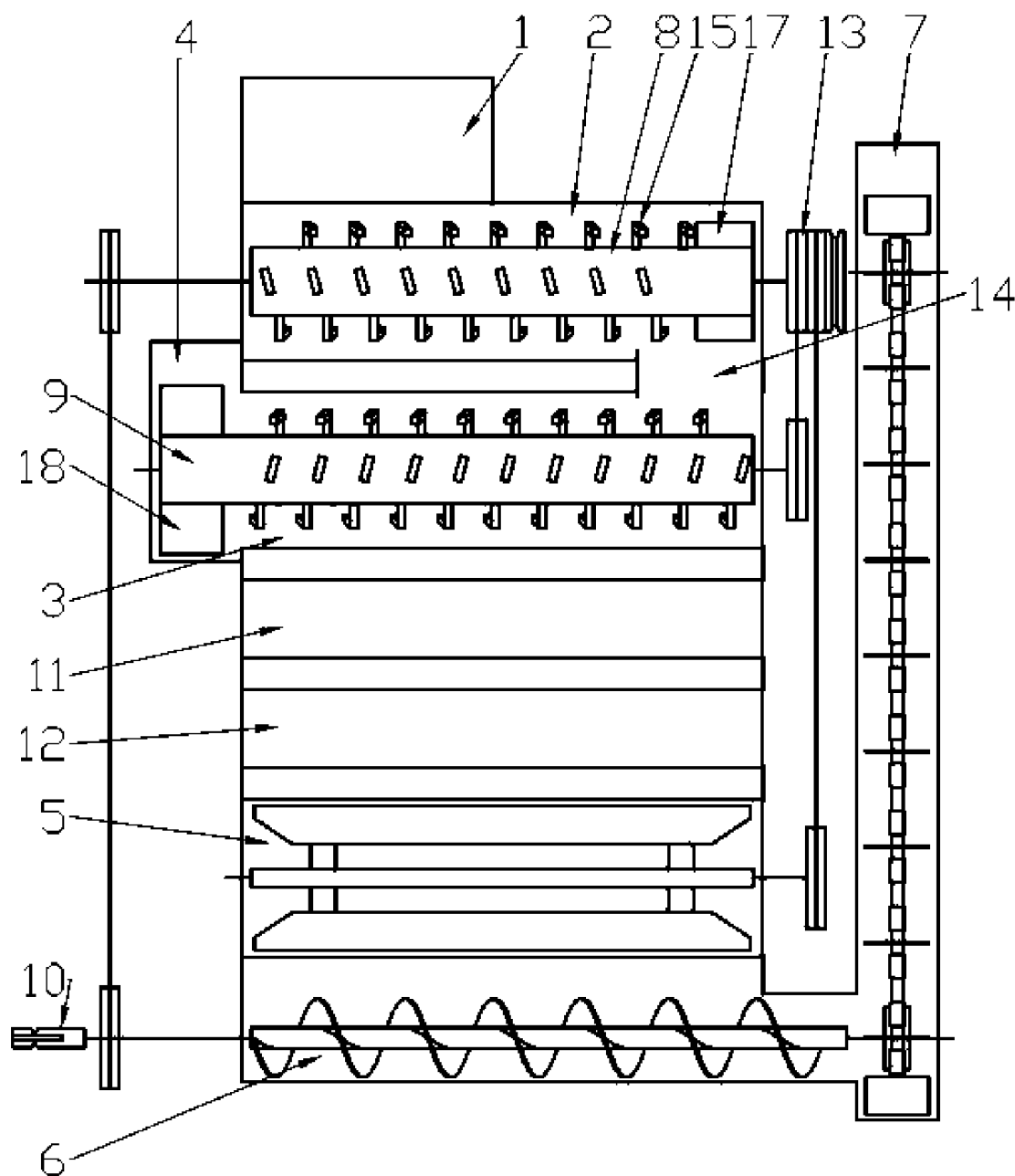
20 Documents

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CN201091124U Y	Self-propelled corn sheller	LIU HONGKUI

Family 1/20 - FAMPAT - ©Questel

Title

(CN101779548B)

Design method and device of **corn sheller****Images****Publication numbers with kind code & date**

CN101779548	B	2012-06-13	CN101779548B
CN101779548	A	2010-07-21	CN101779548

**Abstract**

(CN101779548)

The invention relates to agricultural machinery, in particular to a design method and a device applicable to a **corn sheller**; the device comprises five parts, i.e. power transmission mechanisms, a threshing mechanism, a conveying mechanism, an impurity removing mechanism and a frame, and is characterized in that a drum of the threshing mechanism is provided with a screen hole, and the longitudinal direction of the screen hole is longer than the horizontal direction thereof; the power transmission mechanisms are arranged on both sides of the frame; the conveying mechanism comprises a pushing device

and an elevating device, the pushing device is arranged on the lower side of the frame, the elevating device is arranged on one side of the frame, and the threshing mechanism and the impurity removing mechanism are fixed on the frame; each power transmission mechanism comprises a power access shaft head and a power access wheel; and when the power access shaft head serves as a power access point, the power access shaft head is connected with a power output PTO, a diesel engine or a **motor** in a transmission way. The invention not only has high efficiency and high purification to dry **corn** with skin or wet **corn** with skin, but also has simple structure, and can be combined with any power source.

Inventors

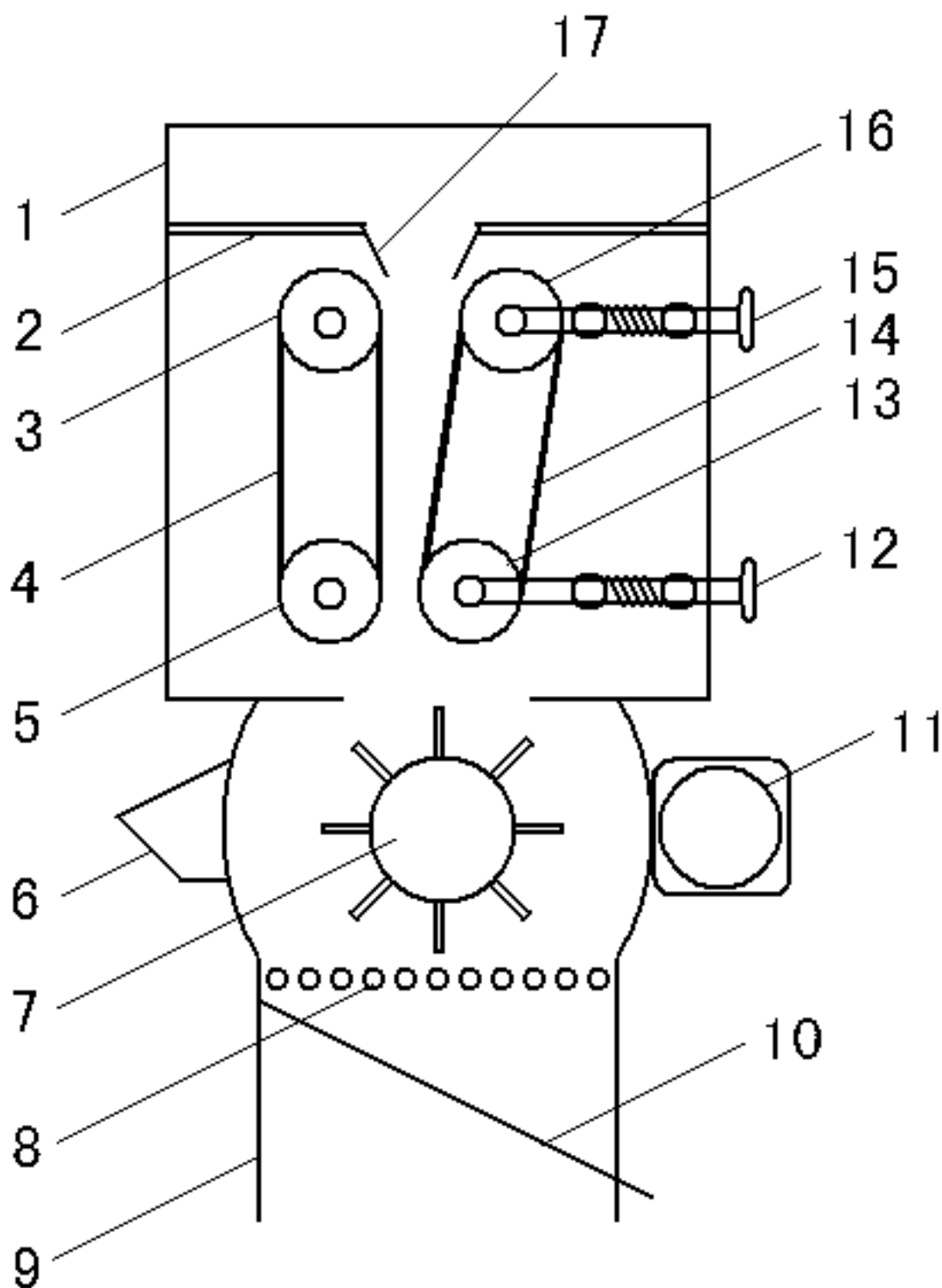
YUAN YI

Family 2/20 - FAMPAT - ©Questel

Title

(CN103190252)

Extruded **corn sheller****Images**



Publication numbers with kind code & date

CN103190252

A

2013-07-10

CN103190252



Abstract

(CN103190252)

The invention discloses an extruded **corn sheller**, and relates to a **corn** threshing device. The extruded **corn sheller** comprises a frame and threshing equipment, wherein a corncob extruding device is arranged at the upper part or front side part of the threshing equipment; furthermore, the structure of the corncob extruding device is characterized in that a plurality of pairs of rollers are sequentially arranged; each pair of rollers include two opposite rollers; a gap is reserved between each pair of rollers; and at least one **roller** shaft in each pair of rollers can be movably fixed, so as to ensure an adjustable distance between two rollers. The structure of the corncob extruding device is characterized in that a plurality of rollers arranged sequentially form one group; the group of rollers are connected through belts and opposite to another group of rollers which are connected through the belts; a V-shaped structure is formed between the belts; and one pair of

roller shafts can be movably fixed, so as to ensure the adjustable distance between two opposite rollers. The extruded **corn sheller** has the beneficial effects that the **corn** is shelled by a method of first extruding and then shelling; and niblet is not easily damaged. Therefore, the crushing rate of the **corn** is greatly reduced.

Inventors

LI ZHENYONG

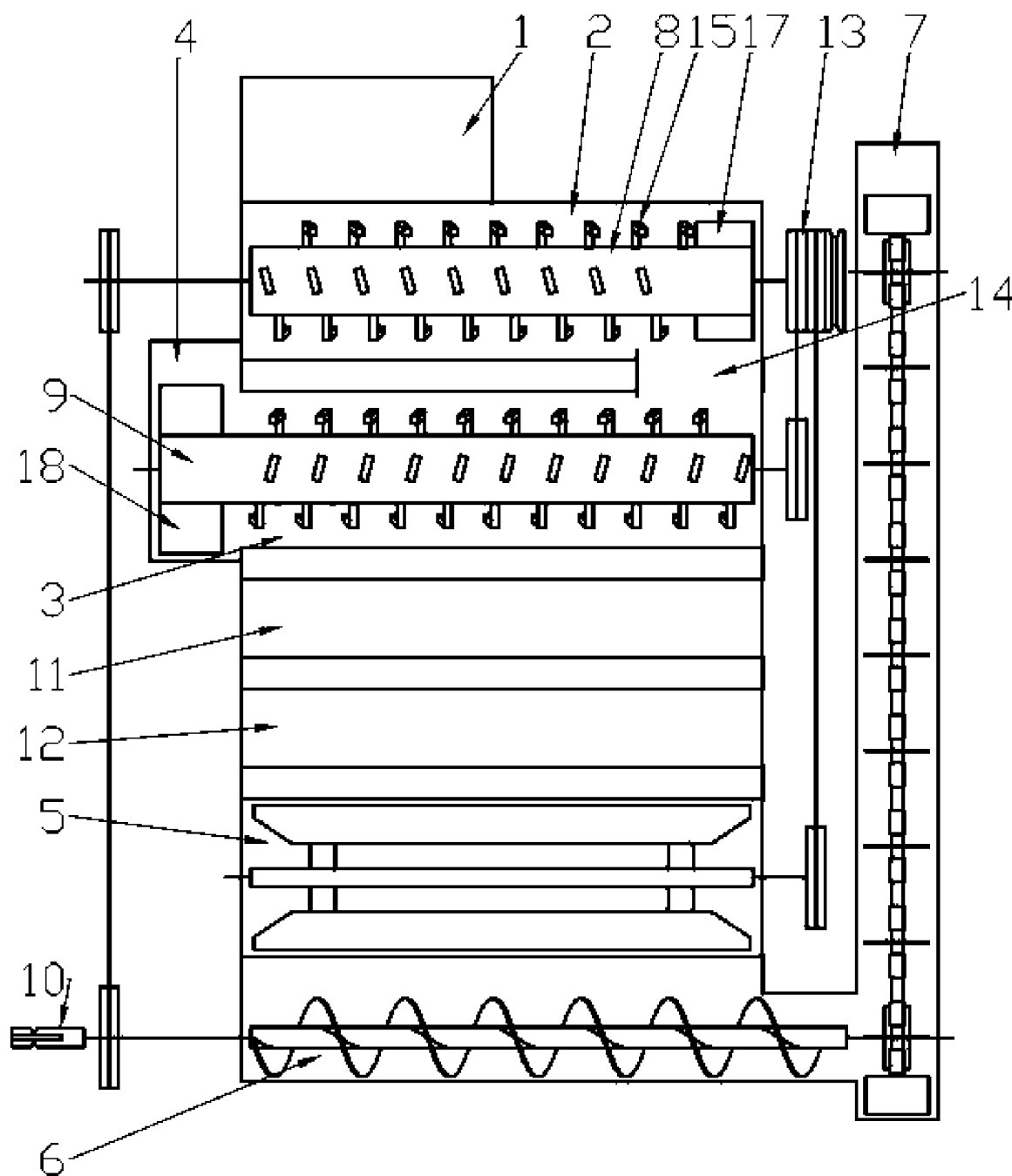
Family 3/20 - FAMPAT - ©Questel

Title

(CN201640020U)

Corn sheller suitable for multiple power models

Images



Publication numbers with kind code & date

CN201640020

U

2010-11-24

CN201640020U



Abstract

(CN201640020)

The utility model relates to an agricultural machine, in particular to a **corn sheller** suitable for multiple power models. The **corn sheller** consists of a power transmission mechanism, a shelling mechanism, a conveying mechanism, a litter-removing mechanism and a chassis. The **corn sheller** is characterized in that: the power transmission mechanism comprises a power input shaft head and a power input sheave, and when the power input shaft head is a power input point, the power input shaft head is transmissively connected with a power output PTO or a diesel engine or a **motor**; when the power input sheave is the power input point, the power input sheave is transmissively connected with the diesel engine or the **motor**; the power transmission mechanism is positioned on both sides of the chassis, the conveying mechanism comprises an auger and a lift conveyer, and the shelling mechanism and the litter-removing mechanism are fixed on the chassis. The **corn sheller** can efficiently and completely shell dry corns with husks as well as wet corns with husks, has simple structure and can be used along with any power sources.

Inventors

YUAN GUOBIN

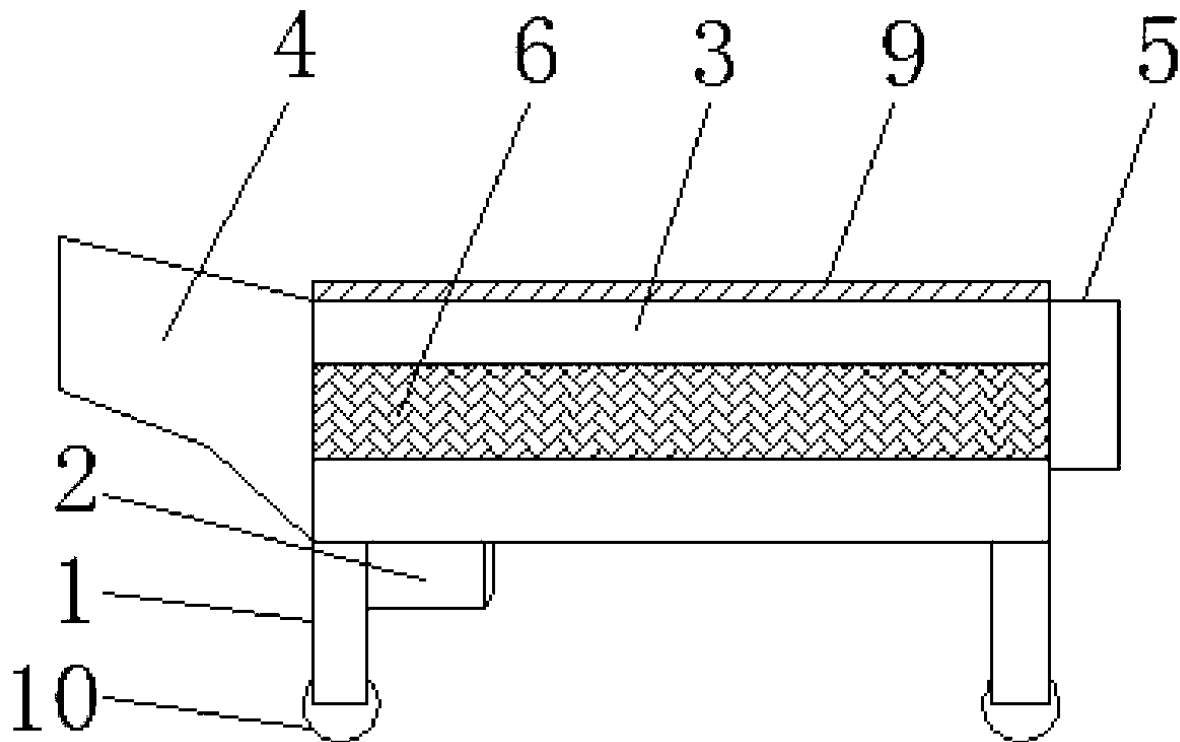
Family 4/20 - FAMPAT - ©Questel

Title

(CN202933738U)

Corn sheller

Images



Publication numbers with kind code & date

CN202933738

U

2013-05-15

CN202933738U



Abstract

(CN202933738)

The utility model discloses a **corn sheller**. The **corn sheller** comprises a rack, wherein a **motor** and a peeling chamber are formed on the rack; a feeding hopper is arranged on one side of the peeling chamber; two parallel peeling rubber rollers with fish-scale bulges distributed on the surfaces are rotatably arranged in the peeling chamber; two parallel guide rollers are arranged between the two peeling rubber rollers; helicoidal guide ribs are arranged on the two guide rollers; and the output shaft of the **motor** is in transmission connection with the peeling rubber rollers and the guide rollers through belts respectively. The **corn sheller** is simple in structure and convenient and flexible in installation and use, can replace a person to perform efficient and quick peeling operation on **corn**, is good in peeling effect, can effectively save manual labor and resources, reduces the labor intensity of workers and improves the production and processing efficiencies.

Inventors

JIA GUANGCHAO

WANG WUMIN

Latest standardized assignees - inventors removed

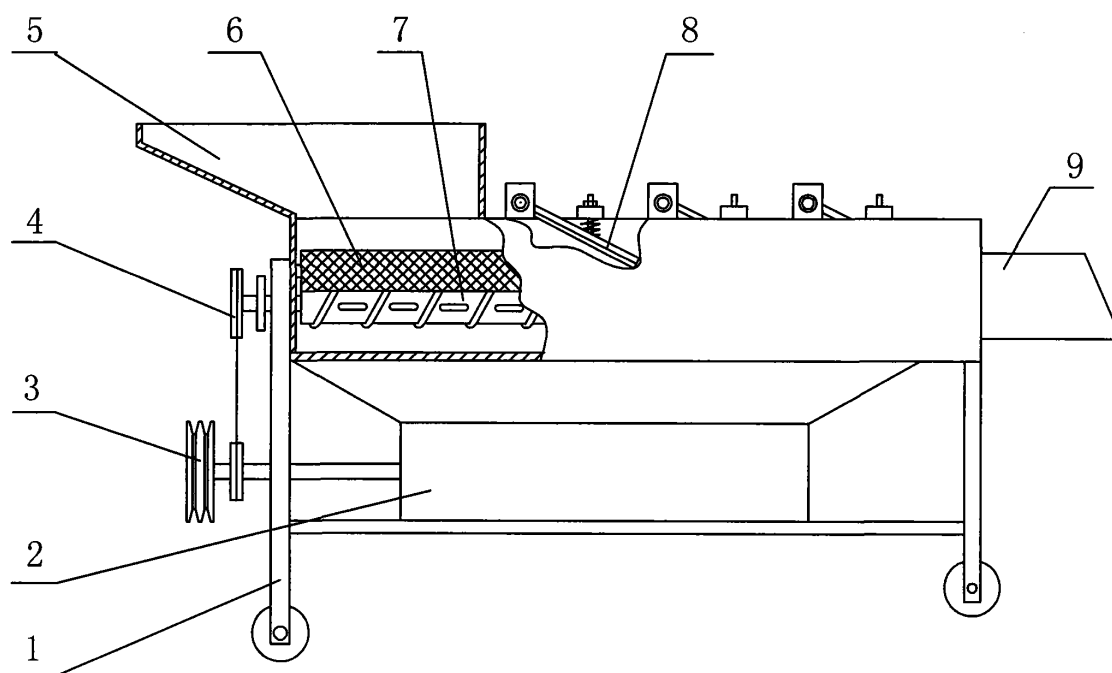
ANHUI JINFENG MACHINERY

Family 5/20 - FAMPAT - ©Questel

Title

(CN201398313U)

Corn sheller

Images**Publication numbers with kind code & date**

CN201398313

Y

2010-02-10

CN201398313U

**Abstract**

(CN201398313)

The utility model relates to an agricultural machine, in particular to a **corn sheller**, which comprises a frame (1), rotating rollers, a fan (2) and a pressing plate (8). The utility model is characterized in that the number of the rotating rollers is more than four, and a clutch (10) is arranged between a power input wheel (3) and a rotating **roller** driving wheel (4). Since the number of the rotating rollers is increased, the working surface is increased and the production efficiency is improved. The clutch is used, the startup process is decomposed, the startup moment is reduced and thereby the production efficiency can be greatly improved under the same power. The production efficiency of the **corn sheller** with eight rotating rollers can reach 5t per hour. The operation quality is obviously improved and the **corn sheller** can substitute for the existing machines of the same kind. Conditions are provided for solving the problem of shelling the **corn** and for relieving the burden of the farmers.

Inventors

Fu Yun

LIU GUOBIN

ZHAO ZHONGHE

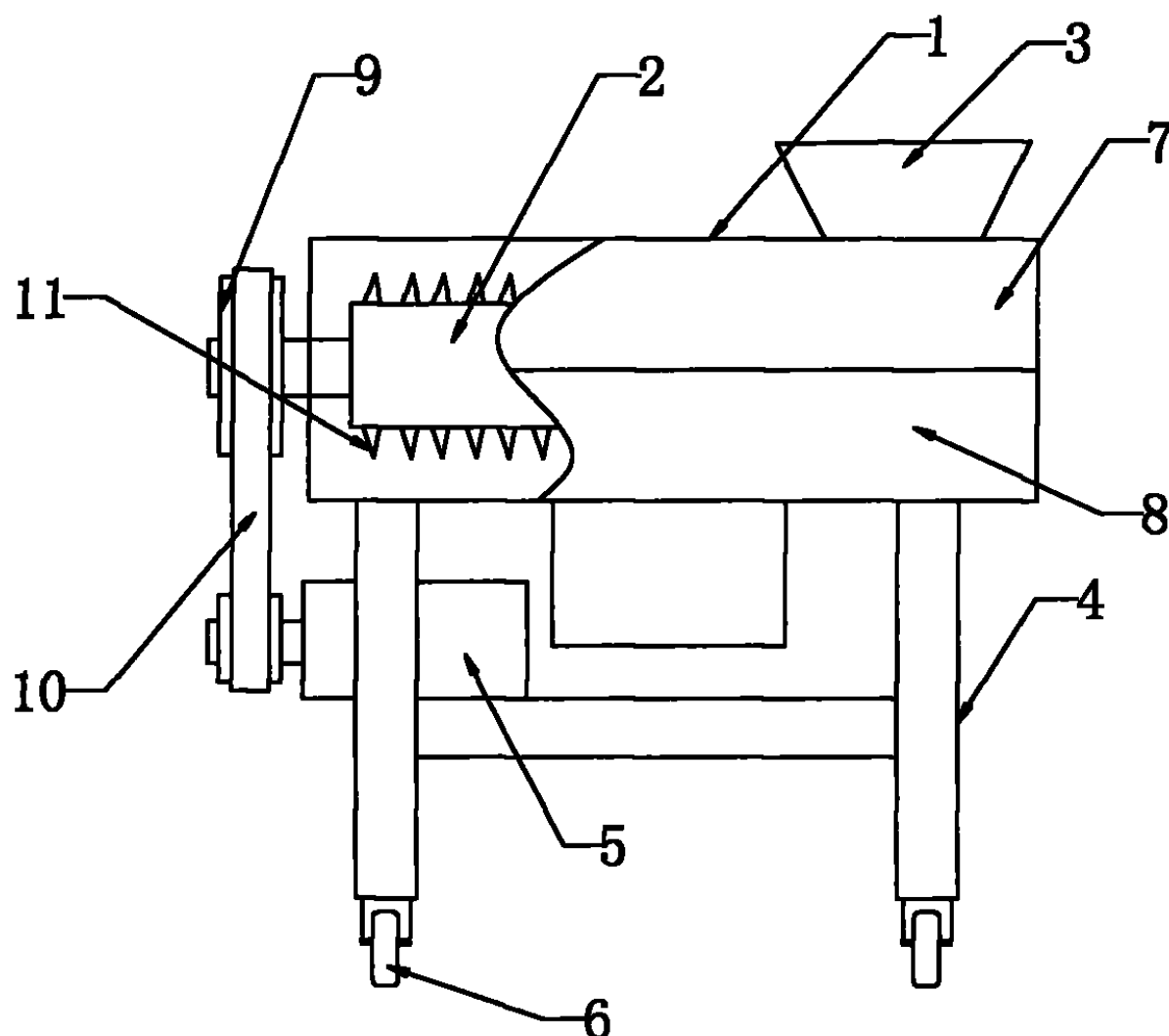
Family 6/20 - FAMPAT - ©Questel

Title

(CN202374727U)

Wet **corn sheller**

Images



Publication numbers with kind code & date

CN202374727

U

2012-08-15

CN202374727U



Abstract

(CN202374727)

The utility model discloses a wet **corn sheller**, which comprises a case, a roll shaft, a feeding port and a discharging port, wherein the feeding port is arranged on the top of the case, the discharging port is arranged on the lower portion of the case, the case is arranged on a frame, the frame below the case is provided with an electrical **motor**, the case comprises an upper case and a lower case, the upper case and the lower case are fixed together through a bolt, the roll shaft is arranged inside the case, one end of the roll shaft extends out of the case, a driving wheel is arranged on a portion of the roll shaft which extends out of the case, the driving wheel is connected with the electrical **motor** through a conveying **belt**, and a plurality of conical teeth are arranged unevenly on the roll shaft which is arranged in the case. The wet **corn sheller** can perform mechanical shelling processing of wet **corn**, the processing is rapid, and manpower resources and material resources are saved greatly.

Inventors

GU JUN

Family 7/20 - FAMPAT - ©Questel

Title

(CN201898741U)

Small **corn sheller**

Publication numbers with kind code & date

CN201898741

U

2011-07-20

CN201898741U



Abstract

(CN201898741)

The utility model relates to an agricultural machine, in particular to a small **corn sheller**, which comprises a chassis, a **motor**, a shelling **roller** and barrels with feed inlets and discharge outlets, the **motor** is fixed on the chassis, the shelling **roller** is movably mounted on both ends of the top of the chassis through bearings on both ends, the barrels are mounted outside the ports of both ends of the shelling **roller**, the shelling **roller** is connected with the **motor** through belts and **belt** pulleys, the ports of the shelling **roller** are shelling teeth which are integrated with the shelling **roller**, and the tips of the shelling teeth are inclined toward the center of the shelling **roller** from the circumference of the shelling **roller**. The product can shell **corn** ears which are just harvested, corncobs cannot be crushed, and do not carry niblets, and the small **corn sheller** can thoroughly shell **corn** ears in one step.

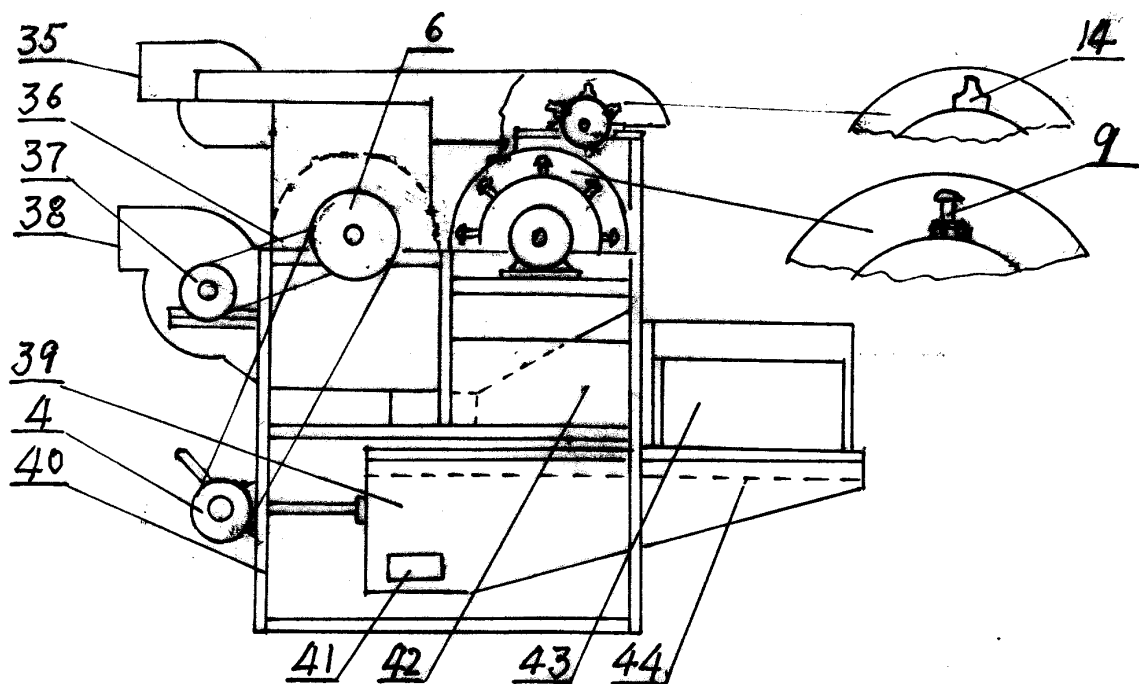
Inventors

DUN SHUITIAN

Family 8/20 - FAMPAT - ©Questel

Title

(CN201709153U)

Scratching fin type non-peeling multi-purpose **corn sheller****Images****Publication numbers with kind code & date**

CN201709153

U

2011-01-19

CN201709153U

**Abstract**

(CN201709153)

The utility model discloses a scratching fin type non-peeling multi-purpose **corn sheller**, which belongs to the field of farm machinery. The **corn sheller** adopts the main technology that a peel grabbing shaft is installed on a rotary drum; scratching fins are welded on the peel grabbing shaft in a stagger way; dumbbell-shaped peel grabbing holes are arranged in corresponding positions on the rotary drum; two fluted **roller** shafts and the rotary drum form two threshing cavities; hammer heads are uniformly distributed on the two shafts; the hammer heads can be directly welded on the shafts, or nuts can be welded on the shafts and then the machined hammer heads are screwed on the nuts; a bearer is fixed on a frame; the bearer is connected with a vibrating sieve shaft; a vibrating sieve **belt** wheel and an eccentric wheel are installed on the vibrating sieve shaft; movable joints are respectively connected with the eccentric wheel and a vibrating sift; and a small

vibrating sift is fixed on the vibrating sift. The **corn sheller** has the benefits that peeling is canceled, the operation is time-saving and labor-saving, the sieving is thorough, the crashing ratio is low, the threshing performance is high, the threshing quality is high, the production efficiency is high, various power sources are applicable, accessories are matched with each other, the **corn sheller** is multifunctional, the design is reasonable, the structure is compact, the operation is safe, and the maintenance is simple.

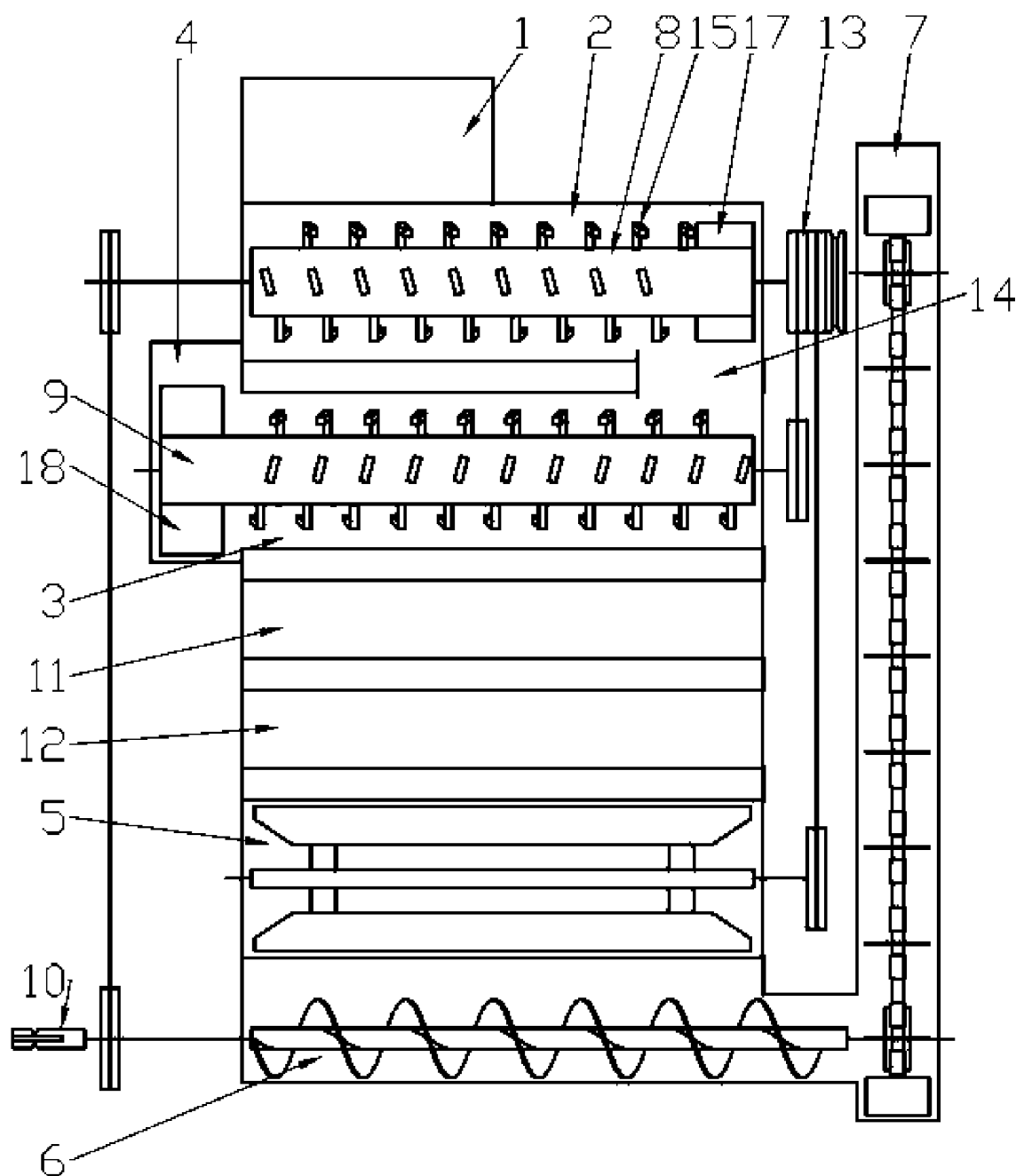
Inventors

ZHOU ZHIWEI

Family 9/20 - FAMPAT - ©Questel

Title

(CN201640017U)

Corn sheller convenient to clean**Images**

(CN201640017)

The utility model relates to the agricultural machinery, in particular to a **corn sheller** convenient to clean. The **corn sheller** includes five main parts, namely a power transmission mechanism, a shelling mechanism, a conveyor mechanism, a sundry removing mechanism and a frame, and is characterized in that the sundry cleaning mechanism consists of a fan, a main-**roller** concave plate sieve, an auxiliary-**roller** concave plate sieve, a rear slide plate and a front slide plate, wherein the front slide plate is a movably-inserted slide plate; the power transmission mechanism is arranged on two sides of the frame; the conveyor mechanism includes a push conveyor and a lift conveyor, the push conveyor is arranged on the lower side of the frame, the lift conveyor is arranged on a side of the frame, and the shelling mechanism and the sundry removing mechanism are fixed on the frame; and a sieve hole is formed on a **roller** of the shelling mechanism and is longer in the longitudinal direction than in the horizontal direction. Not only dry corns but also wet corns with skins can be shelled efficiently, and the cleanness quality is high. With the simple structure, the core **sheller** can be freely matched and used with any power sources.

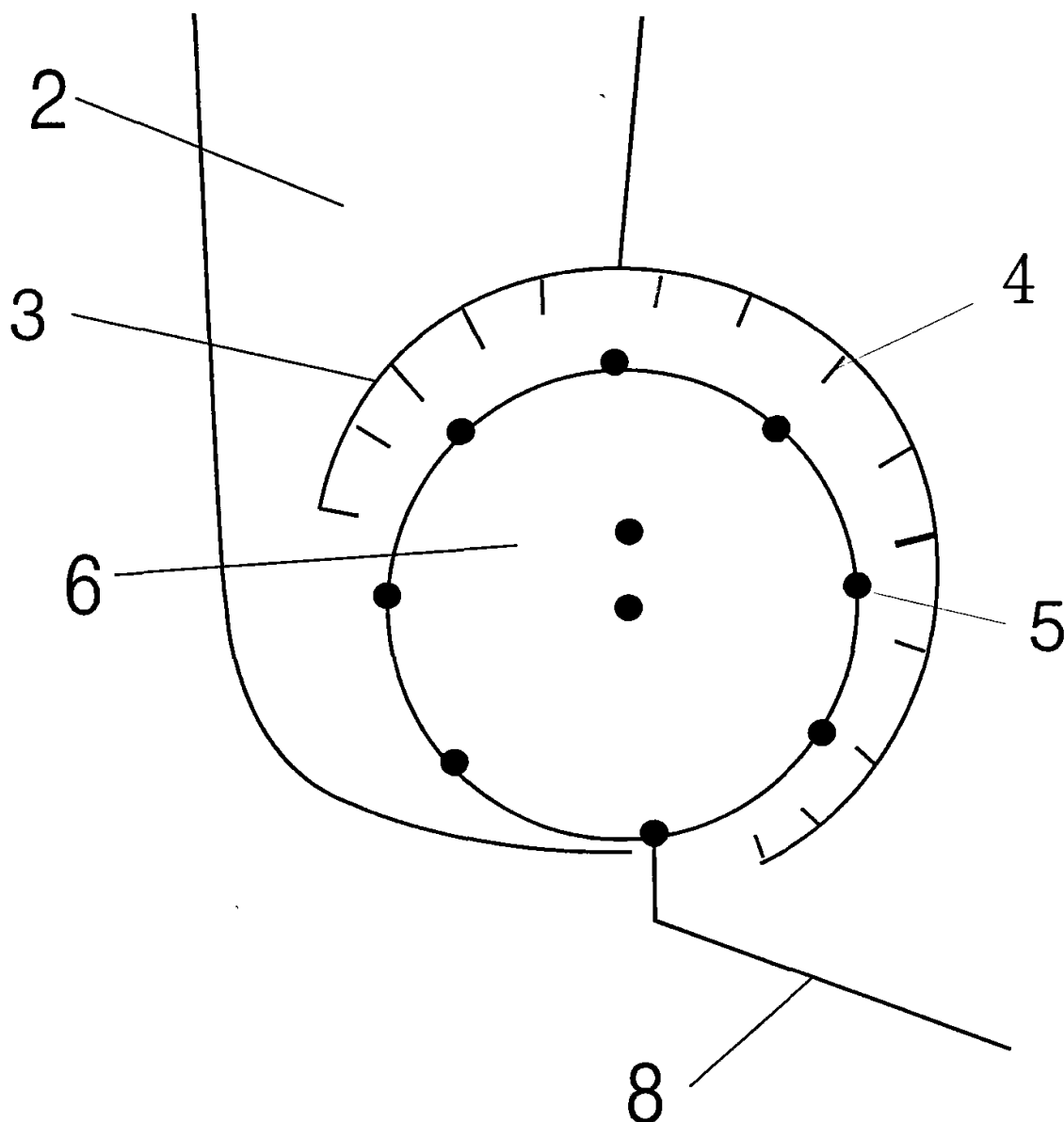
Inventors

YUAN GUOBIN

Family 10/20 - FAMPAT - ©Questel

Title

(CN201345833U)

Novel **corn sheller****Images**

Publication numbers with kind code & date

CN201345833

Y

2009-11-18

CN201345833U

**Abstract**

(CN201345833)

The utility model relates to a novel **corn sheller**, which comprises a framework and a feeding box arranged on the framework, and is characterized in that an arc shape casing is arranged on the lower end of the feeding box, a **roller** is arranged in the arc shape casing and forms a grain rolling channel, the internal surface of the arc shape casing is provided with dead teeth, and **roller** teeth are arranged on the **roller**. The novel **corn sheller** of the utility model is characterized in that **corn** cobs are delivered into a material box through utilizing the mechanics principle after earnestly analyzing the structure and the shape of the **corn** cobs, then the threshing is carried out to the **corn** cobs through the rotation of the **roller** with teeth, the **corn** cobs are rolled into the dead teeth area channel after being digested by seventy percent, and are output after finishing the remaining thirty percent of the threshing task through the rolling between the rotation of the **roller** and the dead teeth. The novel **corn sheller** of the utility model can separate integral corncobs, and has the advantages of convenient use, small noise (no diesel engine), smaller volume, high efficiency, electricity saving and the like.

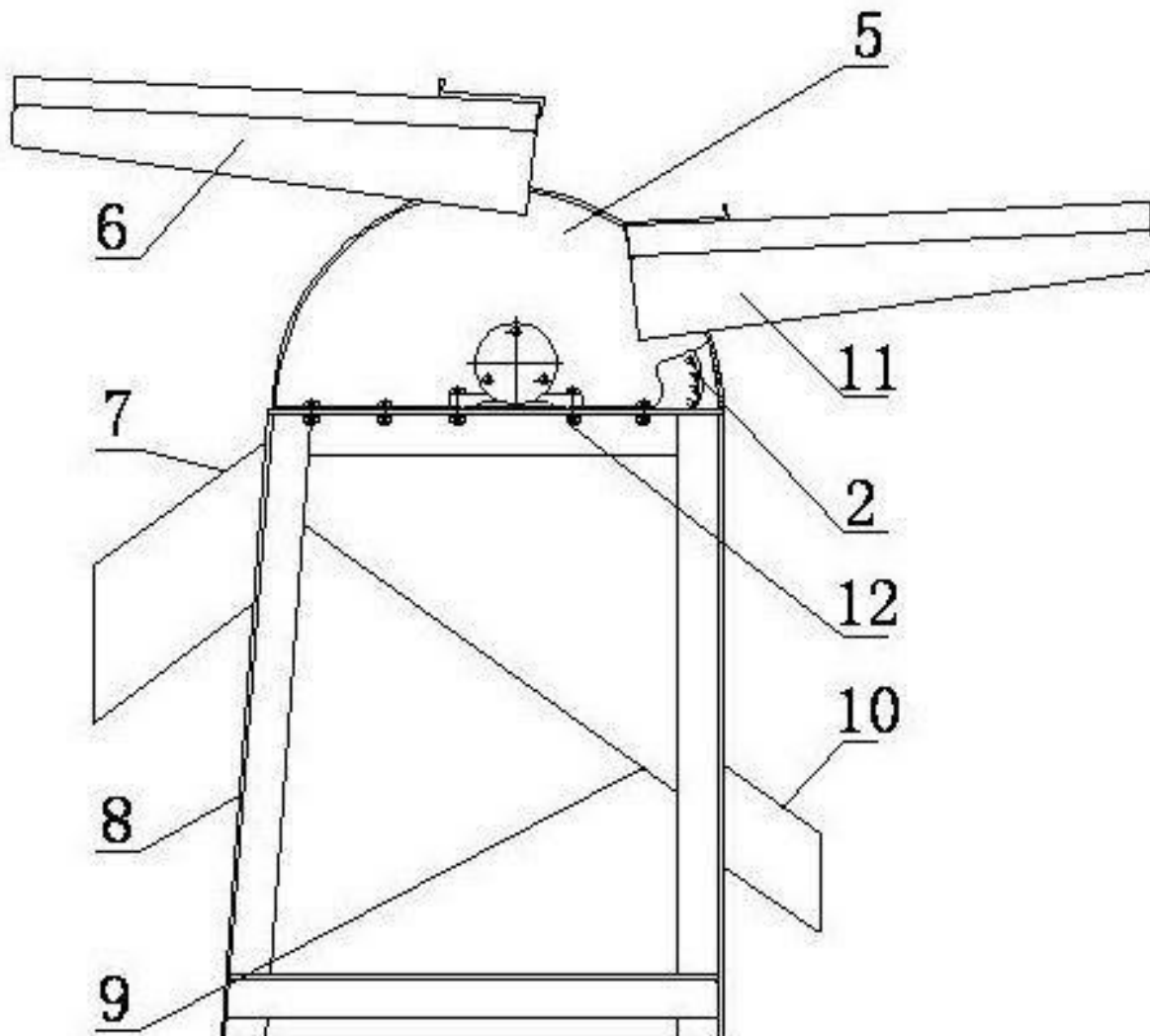
Inventors

YE YUSHENG

Family 11/20 - FAMPAT - ©Questel

Title

(CN202210978U)

Multifunctional bionic **corn sheller****Images**

CN202210978

U

2012-05-09

CN202210978U

**Abstract**

(CN202210978)

The utility model discloses a multifunctional bionic **corn sheller**, which comprises a frame, a shelling **roller**, a shelling screen, a screen plate and a **belt** pulley connected with the shelling **roller**. The frame is composed of an upper casing and a lower frame matched with each other, a first feed inlet and a second feed inlet are arranged on the upper casing, beaklike kernel pulling rods are arranged on the axial peripheral surface of the shelling **roller**, and beaklike shelling rods are arranged on the shelling screen. The multifunctional bionic **corn sheller** can meet the shelling requirements of **corn** kernels for different uses. According to the bionic principle, shelling units (such as spikes, striker ribs and the like) on the **roller** are designed into shapes of wedged beaks of chicken, clusters can be loosened prior to being shelled, and hurt of **corn** kernels during shelling is reduced greatly.

Inventors

LI XINPING

MA FULI

LI YUZHU

WANG XIANHUI

ZHOU WEI

LU CHUNSHENG

WANG TAO

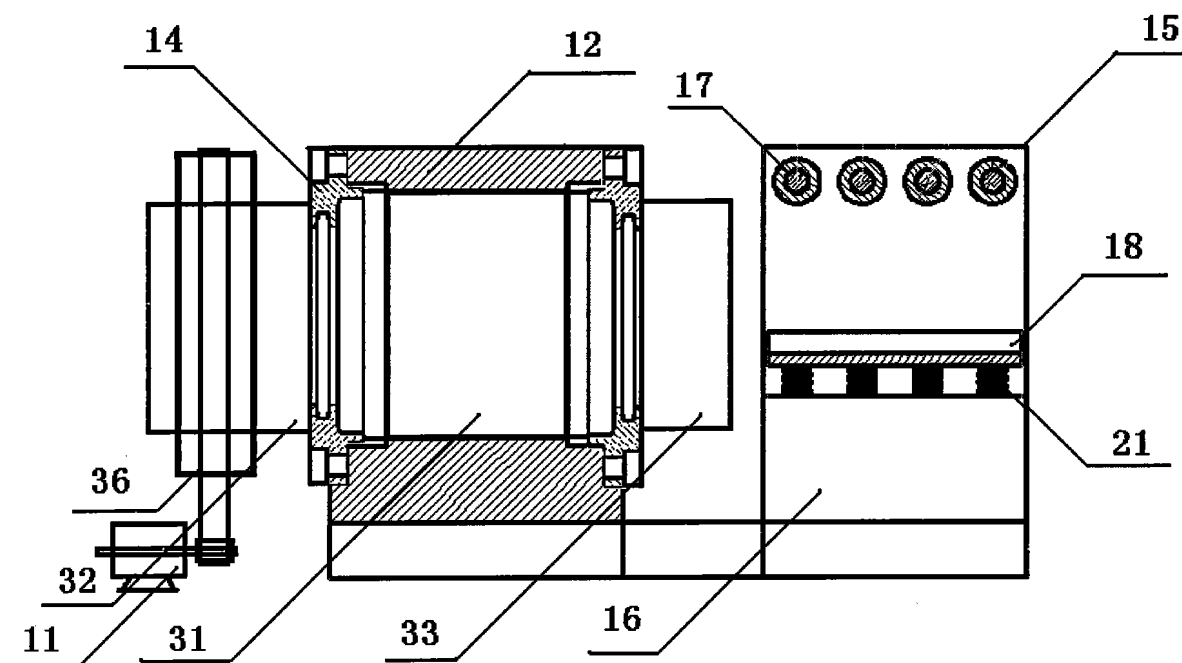
Latest standardized assignees - inventors removed

HENAN UNIVERSITY OF SCIENCE & TECHNOLOGY

Family 12/20 - FAMPAT - ©Questel

Title

(CN201294767U)

Corn sheller**Images****Publication numbers with kind code & date**

CN201294767

Y

2009-08-26

CN201294767U

**Abstract**

(CN201294767)

The utility model relates to a **corn sheller**, which comprises a frame, a hollow drum, an end cover and a **corn** conveying

device; the hollow drum comprises a stair segment, a rib segment and a cutting segment which are fixedly connected with each other, a cutting edge is arranged at the inlet of the cutting segment, plate teeth are mounted on the cutting edge and driven to rotate by the cutting edge, and **corn** ears are driven to conduct helical motion by the plate teeth; in addition, the stair segment is matched with a bearing of a frame and fixed with the end cover through bearings at two ends; the rib segment is that the outlet part thereof is connected with a **belt** pulley with pins, the hollow drum is driven to rotate through the **belt** pulley; moreover, a **corn** transportation device is fixedly installed outside the cutting edge and comprises a base body, a turning wheel and a V-shaped material pressing plate, wherein, the base body is fixedly connected with the frame, four holes used for installing threaded rods and rubber rollers connected with the threaded rods are arranged on a vertical plate of the base body, the rubber rollers can rotate freely on the threaded rods, the material pressing plate is connected with the base body through a movable connecting rod and a spring, and corns of different sizes and diameters to be shelled are clamped through the adjustment of the spring.

Inventors

YANG JINGHUA

HE YANGQING

ZHONG GAOYAN

GU HONGYAN

Latest standardized assignees - inventors removed

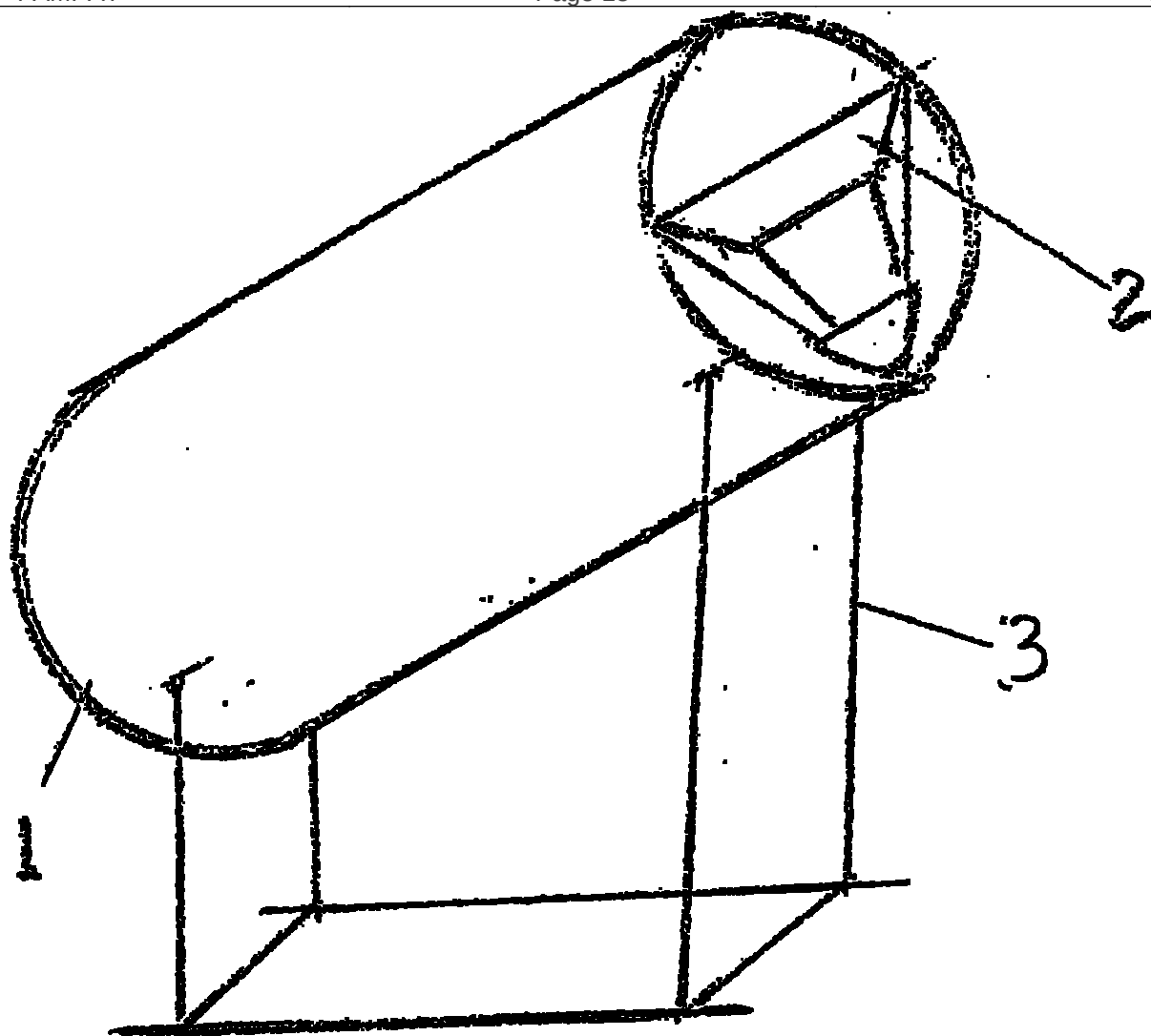
NANJING AGRICULTURAL UNIVERSITY

Family 13/20 - FAMPAT - ©Questel

Title

(CN202603227U)

Bidirectional rotary cylinder type **corn sheller****Images**

**Publication numbers with kind code & date**

CN202603227

U

2012-12-19

CN202603227U

**Abstract**

(CN202603227)

A bidirectional rotary cylinder type **corn sheller** is a device capable of rotating forwardly and backwardly to drive a central rotor to rotate for **corn** threshing and simultaneously drive a periphery drum screen to rotate backwardly. Spike teeth on the conventional rotor are replaced by U-shaped pin knives. The periphery drum screen not only has a sieving function, but also has threshing and guiding functions so as to reduce the crashing ratio of the **corn sheller** and improve the threshing rate during **corn** threshing.

Inventors

CHENG HAI

Latest standardized assignees - inventors removed

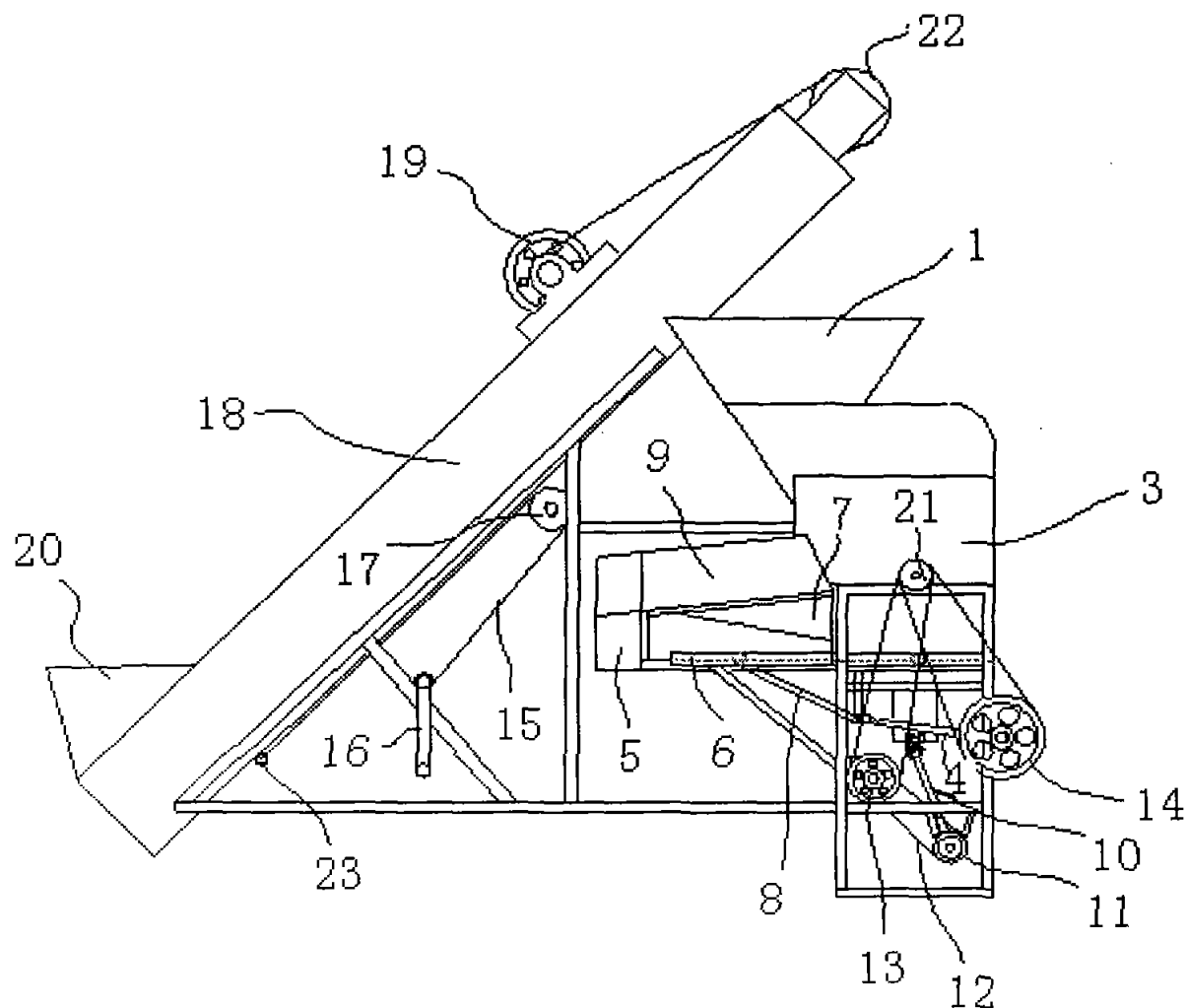
XIANGSHUI COUNTY ZHENHUA TIGHT SETS PRODUCTION

Family 14/20 - FAMPAT - ©Questel

Title

(CN202222178U)

Multifunctional **corn** combine **sheller****Images**



Publication numbers with kind code & date

CN202222178

U

2012-05-23

CN202222178U



Abstract

(CN202222178)

The utility model discloses a multifunctional **corn** combine **sheller**, which comprises a frame and a shelling system. A shelling **roller** is disposed in the shelling system, a primary separating screen is disposed below the shelling **roller**, a kernel outlet and a secondary separating screen are disposed below the primary separating screen, an impurity removal system is provided with a fan, an inlet of the fan is connected with the shelling system, a cob discharging system is provided with a cob discharging passage, an inlet of the cob discharging passage is connected with the shelling system, a return separating screen is disposed on the cob discharging passage, and a return passage leading to the secondary separating screen is disposed below the return separating screen. The multifunctional **corn** combine **sheller** is capable of automatically charging, capable of shelling, removing impurities, discharging cobs and screening once, low in kernel breakage rate, and further capable of automatically collecting and loading the **corn** kernels.

Inventors

SUN JIANXING

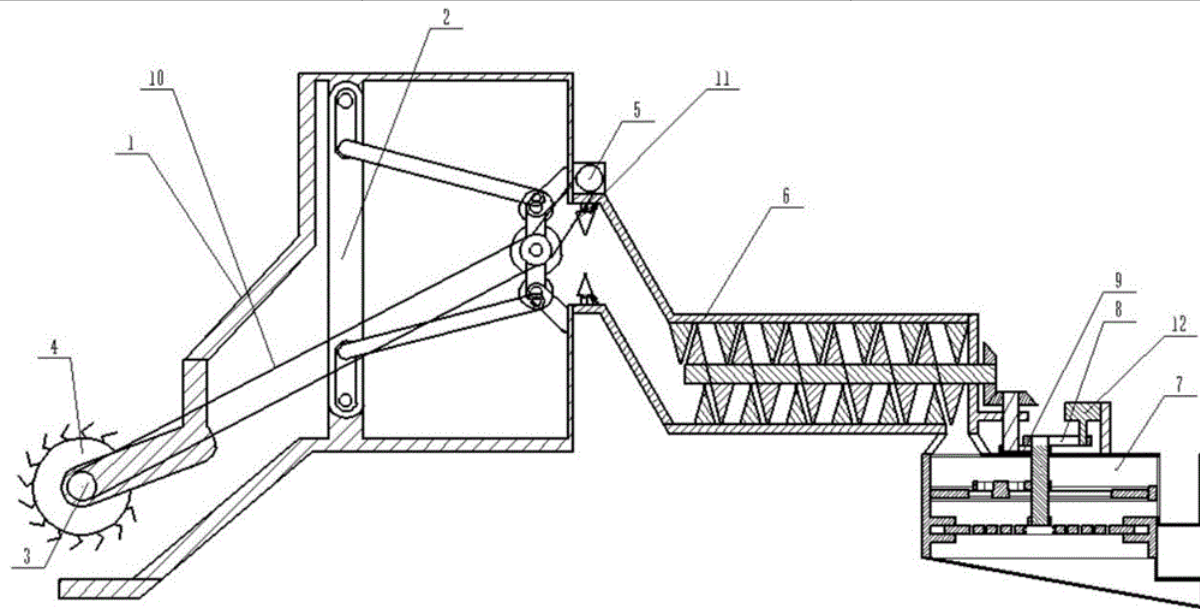
Family 15/20 - FAMPAT - ©Questel

Title

(CN109511383)

Agricultural **corn** **sheller**

Images



Publication numbers with kind code & date

CN109511383

A

2019-03-26

CN109511383



Abstract

(CN109511383)

The invention relates to an agricultural machine, and concretely relates to an agricultural **corn sheller**. Secondary separation of **corn** is carried out through a screening device, so the **corn** kernels and crushed corncobs are separated sufficiently; the screening device is arranged at a foreign material discharging port, so foreign materials can be easily collected, and the environmental quality is easily improved; and the corncob transportation capacity of an auxiliary push rod assembly can be easily changed, so the efficiency of the machine is easily improved. The agricultural **corn sheller** includes a frame assembly, the auxiliary push rod assembly, a push rod **belt** wheel, a push rod, an input **motor**, a crusher, the screening device, a driving **belt** 1, a driving **belt** 2, a connecting **belt** 1, a connecting **belt** 2 and a right **motor**, and the upper end and the lower end of a left hinged support rod can be conveniently fixedly connected to an upper hinged fixed frame and a lower hinged fixed frame; an upper hinged connecting frame and the discharging port of the frame are conveniently fixedly connected to the upper side and the lower side of the right end surface of an auxiliary frame; and a pushing rod shaft can be conveniently fixedly connected to the front end of a pushing rod body.

Inventors

WU YANHONG

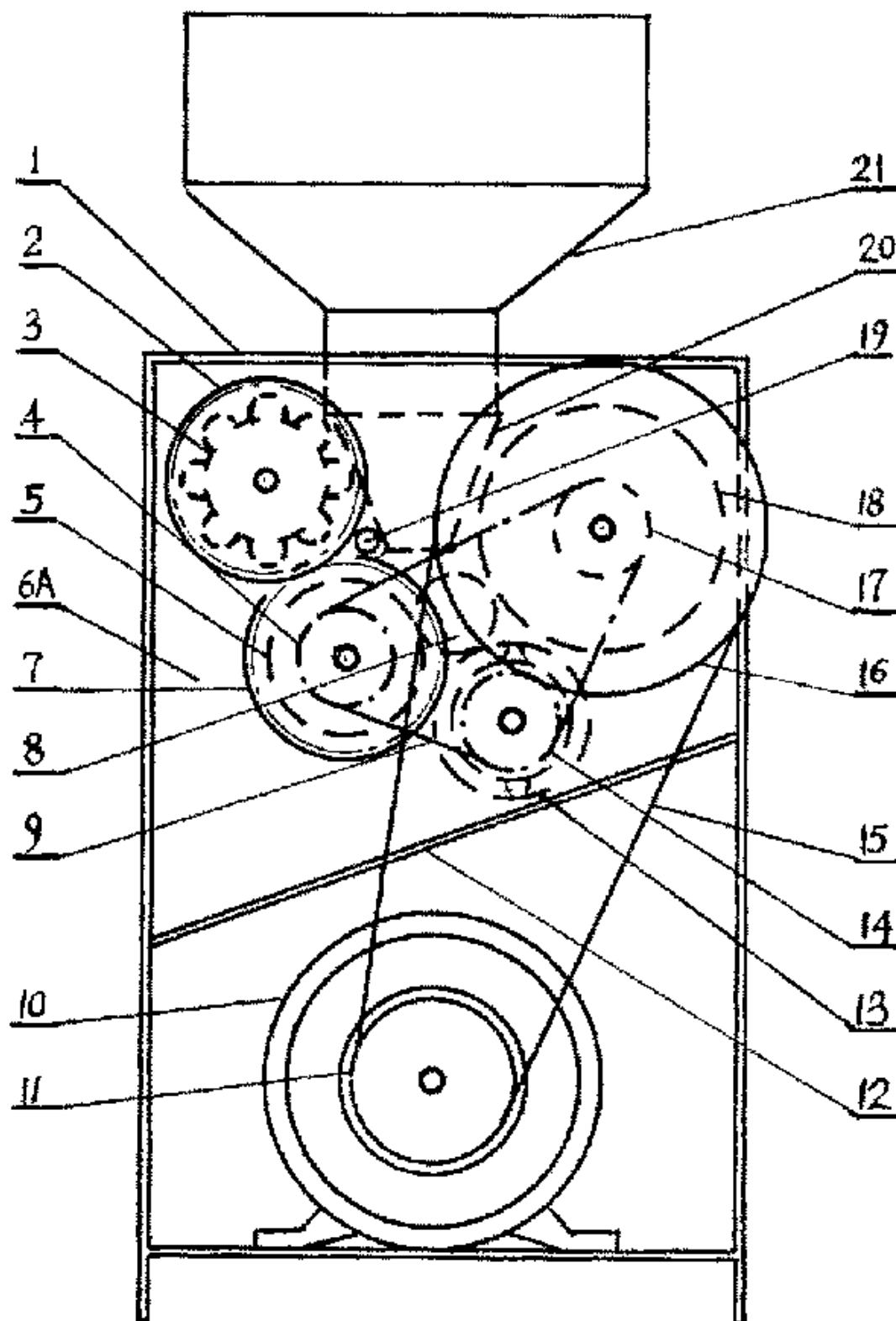
Family 16/20 - FAMPAT - ©Questel

Title

(CN2476167U)

Corn sheller

Images



Publication numbers with kind code & date

CN2476167

Y

2002-02-13

CN2476167U



Abstract

(CN2476167)

The utility model relates to a **corn sheller**. A space formed between a straight-tooth **roller** (3), a small spiral tooth **roller** (5), a slag draining spiral tooth **roller** (13) and a large spiral tooth **roller** (18) in a frame is large in the upper part and small in the lower part. A **belt** wheel (16) and a chain wheel (17) as well as the large spiral tooth **roller** (18) are coaxial; the straight tooth **roller** (3) and a gear (2) are coaxial; the small spiral tooth **roller** (5) and a chain wheel (4) as well as a gear (7) are coaxial;

the slag draining spiral tooth roller (13) and a chain wheel (14) are coaxial; the teeth number of the chain wheel (17), (4) and (14) are same; and the gear number of the gear (2) and (7) are same. The corn shelled by the corn sheller is clean, complete and slagless. Moreover, the utility model can immediately thresh mature dry corn picked off.

Inventors

WEI QIRONG

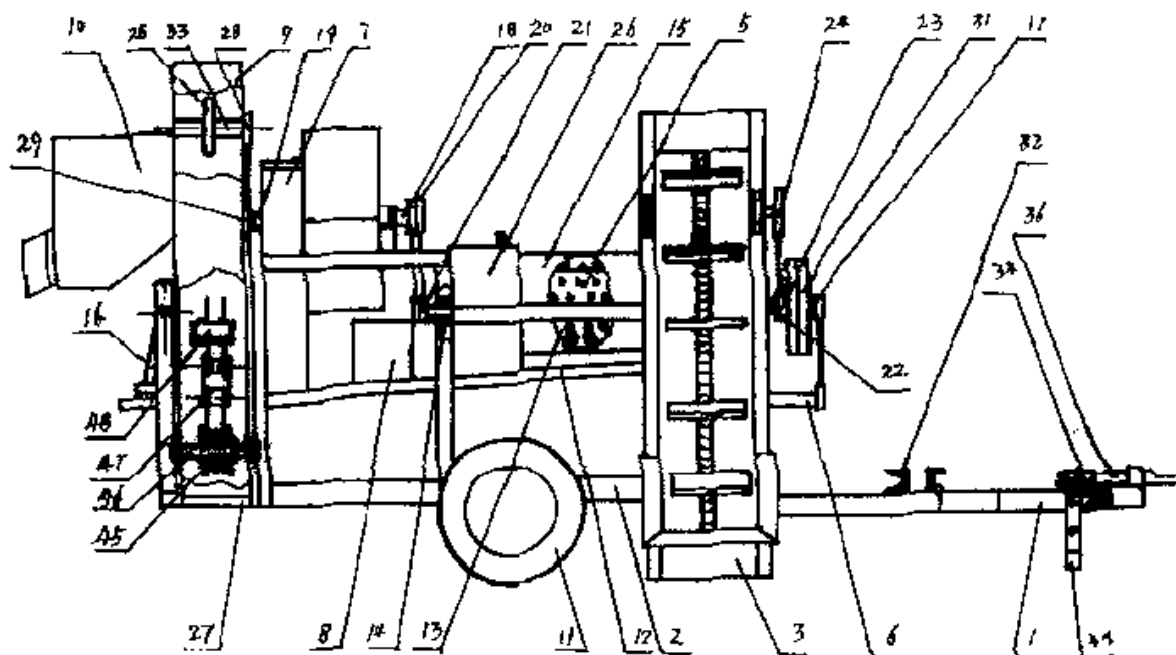
Family 17/20 - FAMPAT - ©Questel

Title

(CN2728196U)

Corn sheller

Images



Publication numbers with kind code & date

CN2728196

Y

2005-09-28

CN2728196U



Abstract

(CN2728196)

The utility model provides a corn sheller. A cap cover and a roller sieve are fixed on a frame; a roller is covered by the cap cover; on side of the cap cover is provided with a straw outlet; the roller is positioned inside the roller sieve; the roller is fixed on the frame; a traction rack is fixed with the front end of the frame; a feeding device is connected with the frame through the connecting rack of the feeding device; a vibration sieve is positioned below the roller sieve and the straw outlet; a second-time recycling device is arranged on the vibration sieve; the front end of the vibration sieve is connected with the frame through a hang rod, and the back end of the vibration sieve is fixed with the frame through the fixed sleeve of a sieve bed transmission mechanism; a fan is positioned above the vibration sieve on one side of the second-time recycling device, and the fan is fixed with the frame; an irrigation bag device is connected with the back end of the vibration sieve and is connected with the back end of the frame through a supporting rack; a grain collecting bucket which is connected with the frame is provided below the grain outlet of the irrigation bag device; a walking wheel is fixed on the frame. The utility model has the advantages of low feeding height, complete shelling, notcrushing seeds, low labour intensity and high work efficiency; the width of the corn sheller can narrow down during walking transportation.

Inventors

LI DELIN

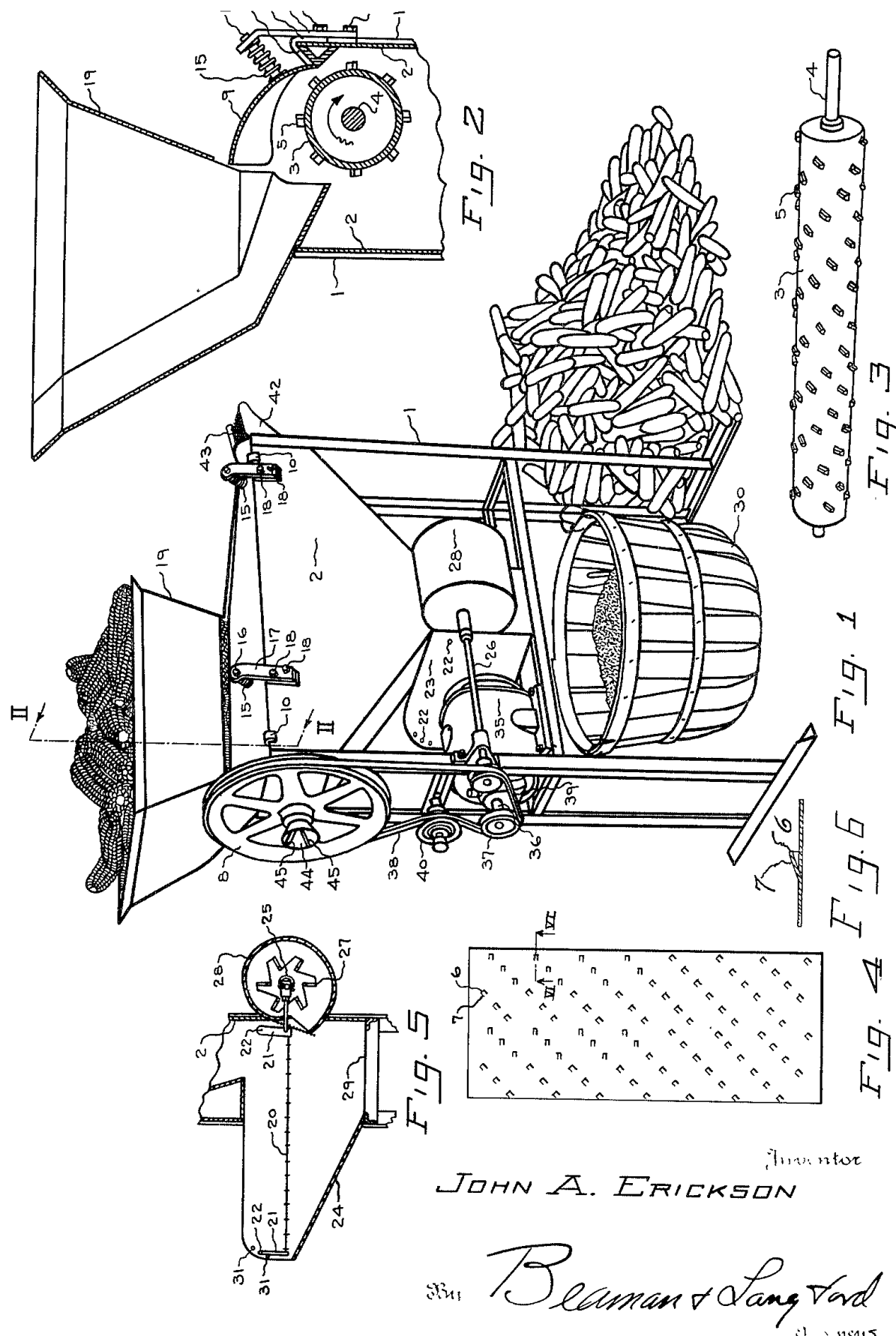
Family 18/20 - FAMPAT - ©Questel

Title

(US2168617)

Corn sheller

Images



Publication numbers with kind code & date

US2168617

A 1939-08-08

US2168617

Inventors

ERICKSON JOHN A



Family 19/20 - FAMPAT - ©Questel

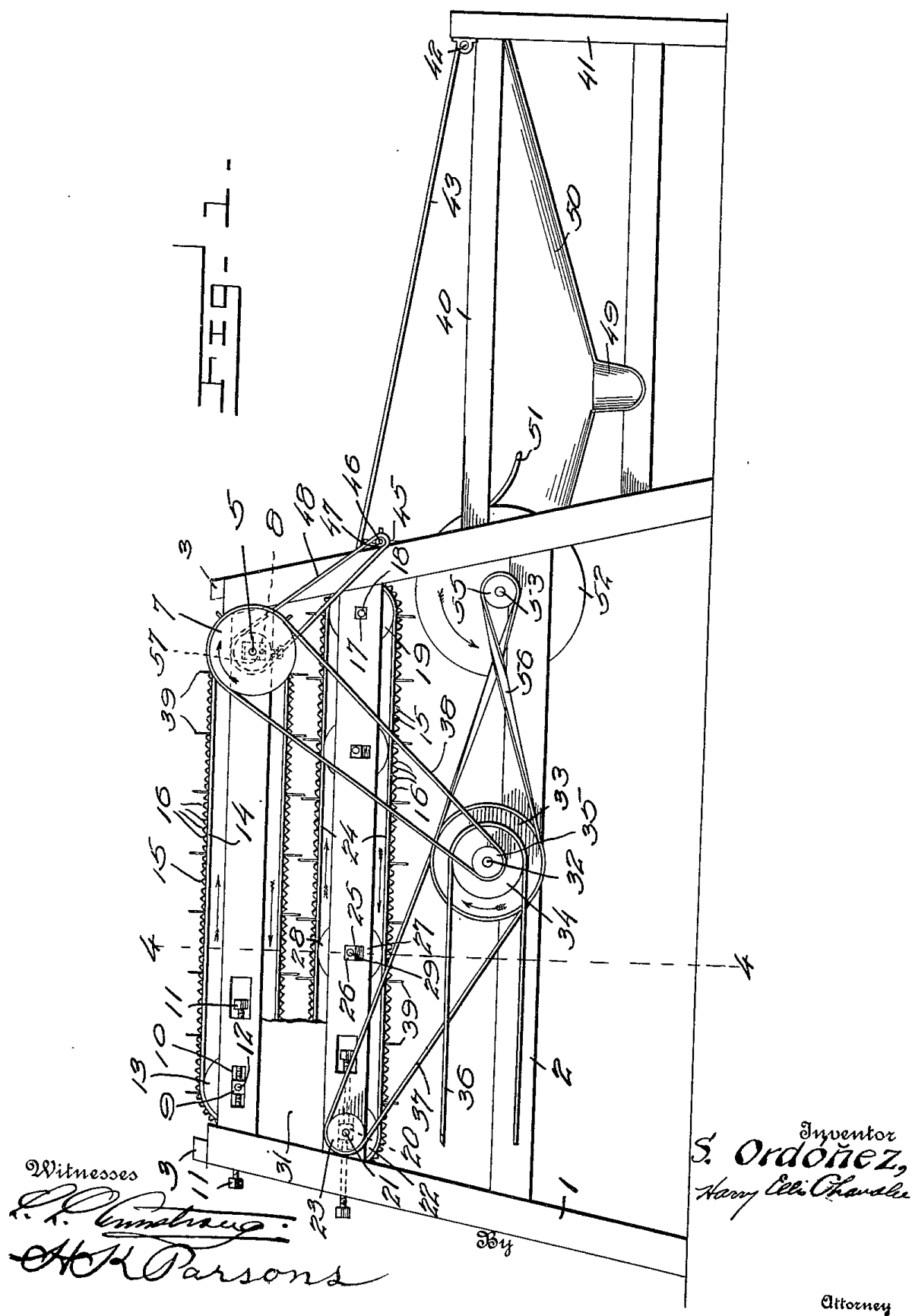
Title

(US1016089)

Corn-sheller.

Images

SHEET 1.



[US1016089](#)

A

1912-01-30

US1016089

**Inventors**

ORDONEZ SALVADOR

Family 20/20 - FAMPAT - ©Questel

Title

(CN201091124U)

Self-propelled **corn sheller****Publication numbers with kind code & date**[CN201091124](#)

Y

2008-07-30

CN201091124U

**Abstract**

(CN201091124)

The utility model relates to a threshing device used for **corn** threshing, in particular to a **corn** threshing device which can move and walk automatically. The **corn** threshing device with automatic movement comprises a feeding device, a frame, a threshing **roller**, a fan, a cleaning sieve and a bag filler, and is characterized in that the **corn** threshing device further comprises a diesel engine, a step-cone tension clutch, a driver wheel, a guide wheel, a steering mechanism, a pedal, a gear box, a rear axle and a driver seat which are arranged on a frame, automatically moves and walks, and adopts the clutching of the step-cone tension clutch for controlling the rotation or halt of the threshing **roller**, the feeding device, the cleaning sieve and the bag filler. A fixing latch hook and a rotary axle bed of the feeding device are arranged on the frame to firmly combine the feeding device and the frame together. When the **corn** threshing device walks, the fixing latch hook of the feeding device is picked off, and the feeding device is led to rotate for 90 degrees by the rotary axle bed, and placed and stably fixed on the threshing device, thus bringing convenience to transportation. A fixing nut and a stretching screw of the feeding device are arranged in the lower end of the feeding device and lead the feeding device to be stable when working.

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