





قوه قضائیه
سازمان ثبت اسناد و املاک کشور
مرکز مالکیت معنوی

کارگاه آموزشی جستجوی اختراعات (مهارت ۵ سطح ۳)

ارائه دهنده: علی رضانی بوکت

کارشناس ثبت اختراعات

تیر ۱۴۰۲

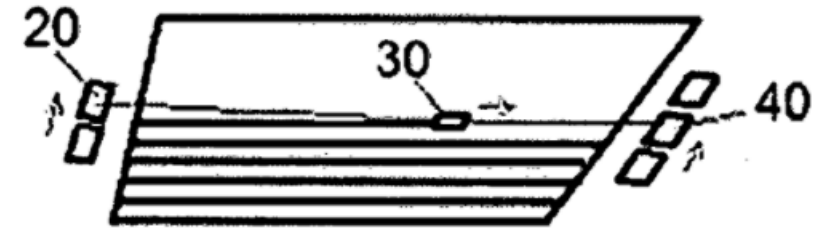


Case Study 1

Abstract

The invention concerned refers to the soil cultivation system consisting of 3 separate units; the assignment (20), the right unit (40) and the central unit (30) which, through mutual action, cultivate the soil as the central unit moves across the field so that the left unit (20) or the right unit (40) are fixed in the ground with an auger (3) and are pulling the central unit (30) in their direction with a winch (1), with the central unit cultivating the soil with its attachments (14) or (15) and (16) as it moves across the field.

FIG 4



Applicants

GORDAN, Palić [HR]/[HR]

Inventors

GORDAN, Palić

Priority Data

P20170314A 24.02.2017 HR

Publication Language

English [EN]

Filing Language

English [EN]



Case Study 1

Technical problem

The problem is in the today's cultivation of soil by using expensive and heavy machinery which require a lot of power and must be transported from one side of the field to the other, meanwhile requiring constant control and correction in order to properly cultivate the soil, and their size makes them hard to transfer to and from the field.



Case Study 1

Patent claims

1. Soil cultivation system, **characterized by** the fact that **soil is cultivated by using 3 units**; the left unit (20), the right unit (40) and the central unit (30).
2. Soil cultivation system, **according to claim 1** , **characterized by** the fact that the left unit (20) and the right unit (40) **consist of** front wheels which turn (7), rear drive wheels (8), a power motor (9), a battery casing (5), a unit control system (6), a winch motor (2) with a winch (1), an auger (3) with an auger motor (4) and telescopic rails (10).
3. Soil cultivation system, **according to claim 1** , **characterized by** the fact that soil cultivation is carried out directly with a central unit (30) **consisting of** front wheels which turn (7), rear drive wheels (8), a power motor (9), skis (13), a battery casing (5), a control system (6), an attachment movement assembly (11) and (12), a ploughing attachment (14) and a strewing attachment (15) with a container (16).

FIG 1

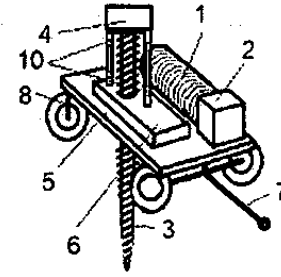


FIG 2

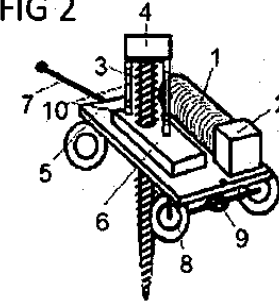


FIG 3

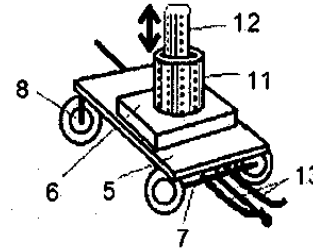


FIG 4

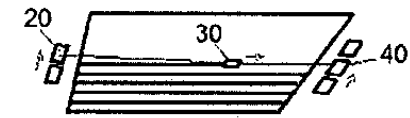


FIG 5

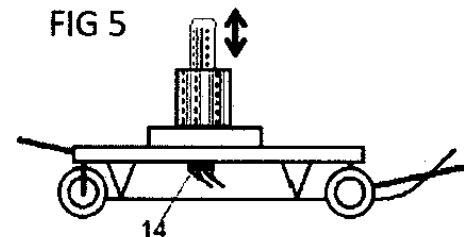
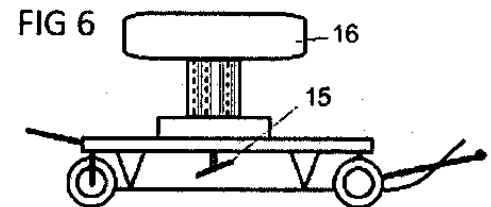


FIG 6



Case Study 1

Description of assignment: Soil cultivation by pulling the central unit with a winch		Application no:	
		Filing date/ Priority date:	
		Applicant:	
Cited:		Inventor:	
Essentiel elements:	cultivation	pulling	winch
Classes:			
CPC IPC	A01B 3/00 Ploughs with fixed plough-shares		
Search words and synonyms:	plough, farming, planting, tillage, tilling	drag, stretch, drain	cable, wire, rope, link, winding
Other: Competitors?			



www.thesaurus.com



Case Study 1

- ❖ **cultivation:** plough, farming, planting, tillage, tilling
- ❖ **pulling:** drag, stretch, drain
- ❖ **winch:** cable, wire, rope, link, winding



Case Study 1

(cultivation OR plough OR farming OR planting OR tillage OR tilling)
AND (pulling OR drag OR stretch OR drain) AND (winch OR cable OR
wire OR rope OR link OR winding)



Case Study 1

(cultivation OR plough OR farming OR planting OR tillage OR tilling) AND (pulling OR drag OR stretch OR drain) AND (winch OF



7,971 results

Offices all

Languages en

Stemming false

Single Family Member false

Include NPL false



Sort: Relevance ▼

Per page: 10 ▼

View: All ▼



1 / 798 ▼



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Case Study 1

(cultivat* OR plough OR farming OR planting OR tillage OR till*)

AND (pull* OR drag OR stretch OR drain) AND (winch OR cable

OR wire OR rope OR link OR winding)



Case Study 1

(cultivat* OR plough OR farming OR planting OR tillage OR till*) AND (pull* OR drag OR stretch OR drain) AND (winch OR cable



63,268 results

Offices all

Languages en

Stemming false

Single Family Member false

Include NPL false



Sort: Relevance ▼

Per page: 10 ▼

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1 / 6,327 ▼



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Machine translation ▼



Case Study 1

Ploughs

-	A01B 3/00	Ploughs with fixed plough-shares [2006.01]
	A01B 3/02	• Man-driven ploughs [2006.01]
-	A01B 3/04	• Animal-drawn ploughs [2006.01]
+	A01B 3/06	• without alternating possibility, i.e. incapable of making an adjacent furrow on return journey [2006.01]
+	A01B 3/16	• Alternating ploughs, i.e. capable of making an adjacent furrow on return journey [2006.01]
-	A01B 3/24	• Tractor-drawn ploughs (A01B 3/04 takes precedence) [2006.01]
	A01B 3/26	• without alternating possibility [2006.01]
+	A01B 3/28	• Alternating ploughs [2006.01]
-	A01B 3/36	• Ploughs mounted on tractors [2006.01]
	A01B 3/38	• without alternating possibility [2006.01]
+	A01B 3/40	• Alternating ploughs [2006.01]
	A01B 3/46	• Ploughs supported partly by tractor and partly by their own wheels [2006.01]
-	A01B 3/50	• Self-propelled ploughs [2006.01]
+	A01B 3/52	• with three or more wheels, or endless tracks [2006.01]
+	A01B 3/58	• with two wheels [2006.01]
-	A01B 3/64	• Cable ploughs; Indicating or signalling devices for cable plough systems [2006.01]
	A01B 3/66	• with motor-driven winding apparatus mounted on the plough [2006.01]
+	A01B 3/68	• Cable systems with one or two engines [2006.01]
	A01B 3/72	• Means for anchoring the cables [2006.01]
	A01B 3/74	• Use of electric power for propelling ploughs (electric current collectors B60L 5/00) [2006.01]
-	A01B 5/00	Ploughs with rolling non-driven tools, e.g. discs (with rotary driven tools A01B 9/00) [2006.01]
	A01B 5/02	• drawn by animals [2006.01]
-	A01B 5/04	• drawn by tractors [2006.01]
	A01B 5/06	• without alternating possibility [2006.01]
	A01B 5/08	• Alternating ploughs [2006.01]

IPC: A01B 3/64

A01B 3/66

A01B 3/68

A01B 3/72

- Cable ploughs; Indicating or signalling devices for cable plough systems
- with motor-driven winding apparatus mounted on the plough [2006.01]
- Cable systems with one or two engines [2006.01]
- Means for anchoring the cables [2006.01]



Case Study 1

IC:("A01B 3/64" OR "A01B 3/99" OR "A01B 3/68") AND DP:[01.01.0000 TO 24.02.2017]

IC:("A01B 3/64" OR "A01B 3/99" OR "A01B 3/68") AND DP:[01.01.0000 TO 24.02.2017]

528 results Offices all Languages en Stemming false Single Family Member false Include NPL false

Sort: Relevance ▼ Per page: 100 ▼ View: All ▼ 5 / 6 < > Download ▼ Machine translation ▼

401.	24090 TREUIL LÉGER POUR MOTOCULTURE	FR - 21.02.1922
Int.Class	A01B 3/72 ⓘ	Appl.No 24090D Applicant MARIE JOSEPH ALBERT DOUILHET Inventor DOUILHET MARIE-JOSEPH-ALBERT
402.	1391366 MOTOR-PLOW	US - 20.09.1921
Int.Class	A01B 3/00 ⓘ	Appl.No 00744007 Applicant LOUIS CHAMPONNOIS DALL Inventor LOUIS CHAMPONNOIS DALL

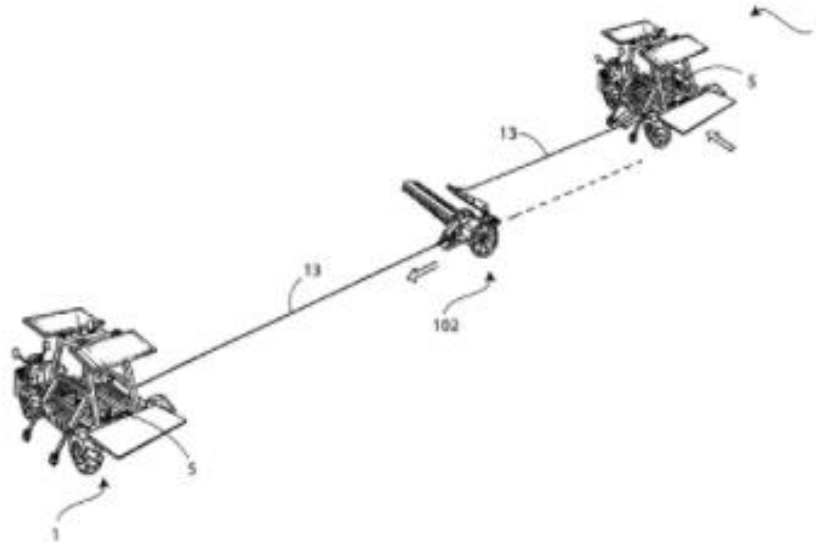


Case Study 1

11. 20120186213 AGRICULTURAL TRACTION SYSTEM WITH CABLE AND HOISTS

Int.Class A01B 3/64 (?) Appl.No 13390071 Applicant Orlando Romano Inventor Orlando Romano

US - 26.07.2012



Case Study 1

16. WO/2011/018813 AGRICULTURAL FUNICULAR TRACTION SYSTEM WITH ELECTRIC PROPULSION

Int.Class A01B 3/64 (?) Appl.No PCT/IT2010/000353 Applicant ORLANDO, Romano
Inventor ORLANDO, Romano

WO - 17.02.2011

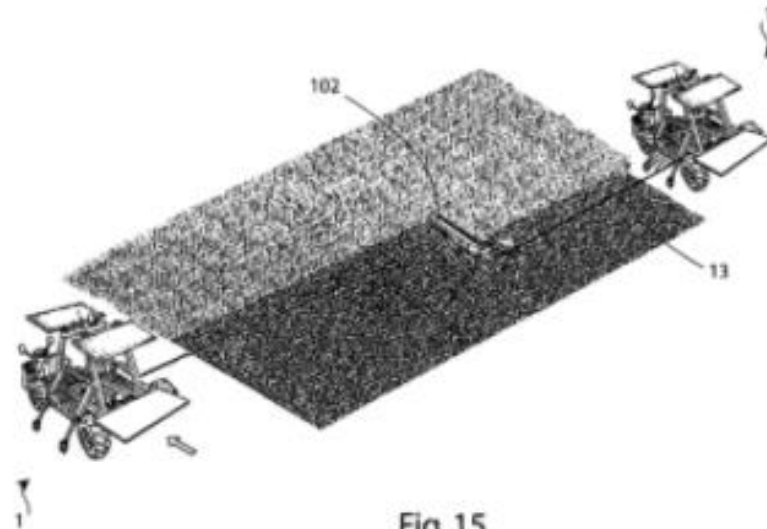


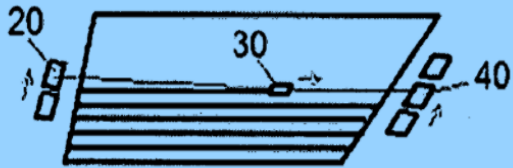
Fig. 15



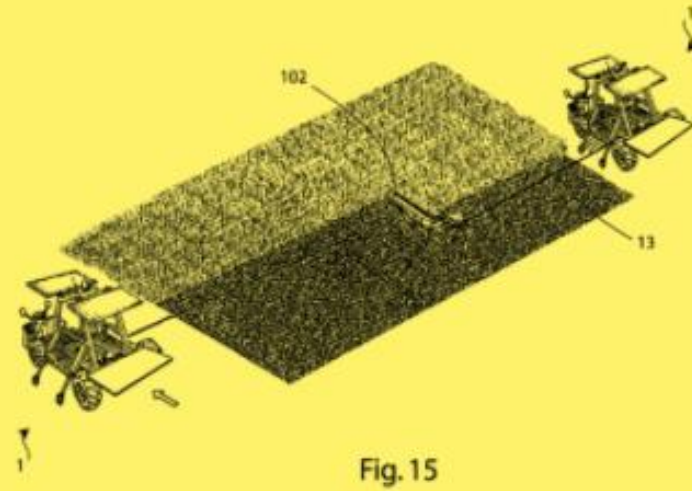
Case Study 1

Claim 1- Soil cultivation system;
the left unit
the right unit
and the central unit

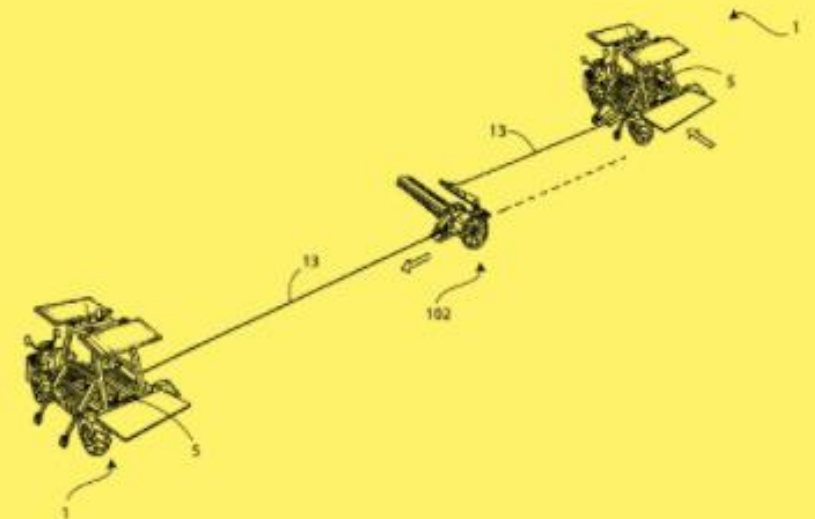
FIG 4



WO - 17.02.2011

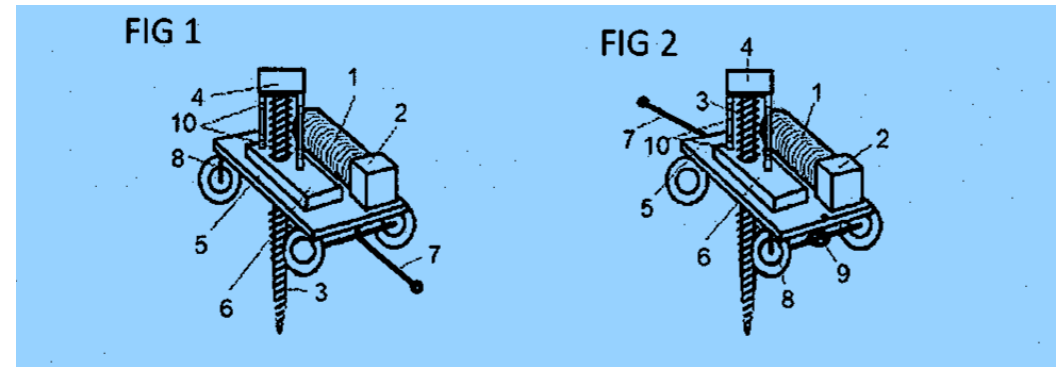


US - 26.07.2012



Case Study 1

Claim 2- the left unit and the right unit consist of
 front wheels which turn,
 rear drive wheels,
 a power motor,
 a battery casing,
 a unit control system,
 a winch motor with a winch,
 an auger with an auger motor
 and telescopic rails.



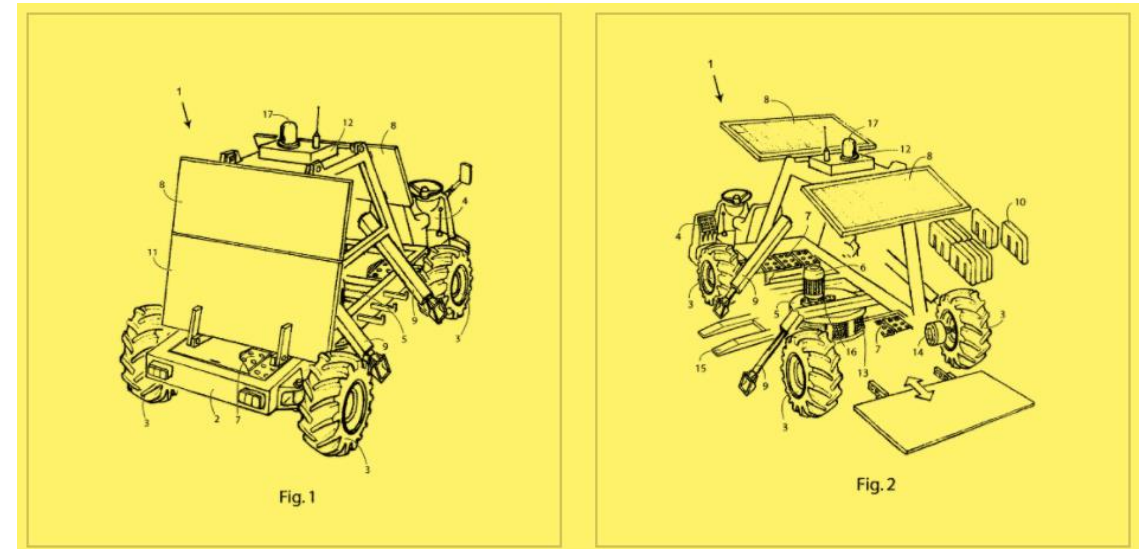
Case Study 1

11. 20120186213 AGRICULTURAL TRACTION SYSTEM WITH CABLE AND HOISTS

Int.Class A01B 3/64 (?) Appl.No 13390071 Applicant Orlando Romano Inventor Orlando Romano

Claim 2- the left unit and the right unit consist of
front wheels which turn,
rear drive wheels,
a power motor,
a battery casing,
a unit control system,
a winch motor with a winch,
an auger with an auger motor
and telescopic rails.

jacks arranged on one side of the frame and configured to steady the machinery,

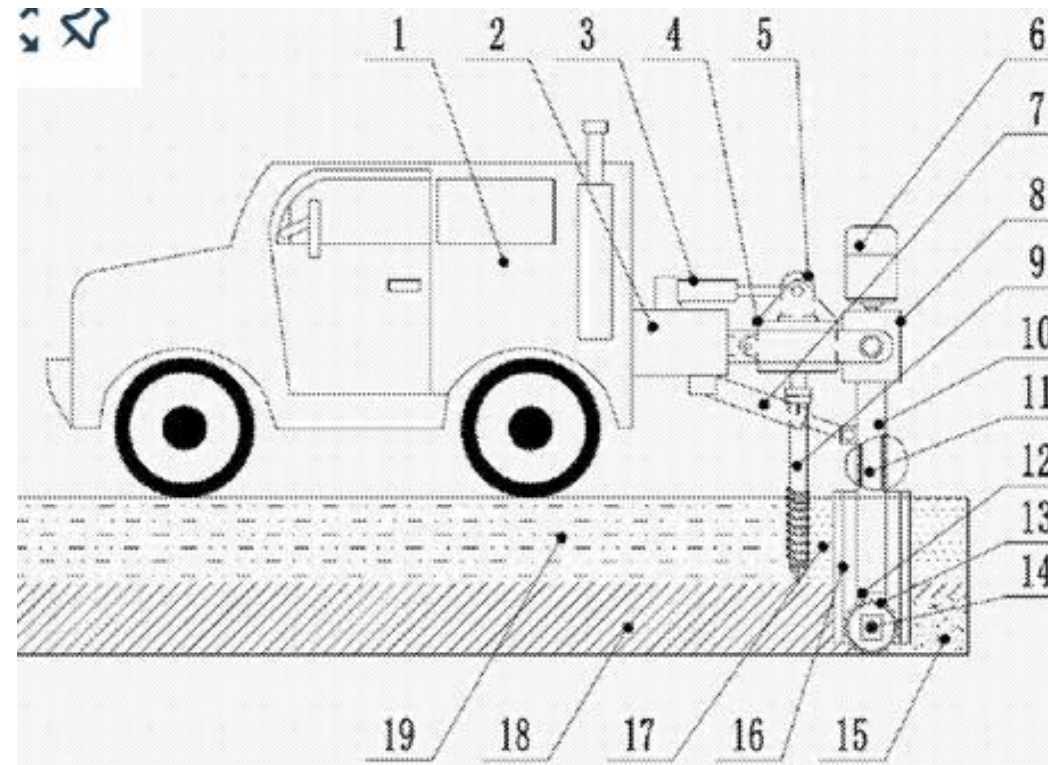


Novel



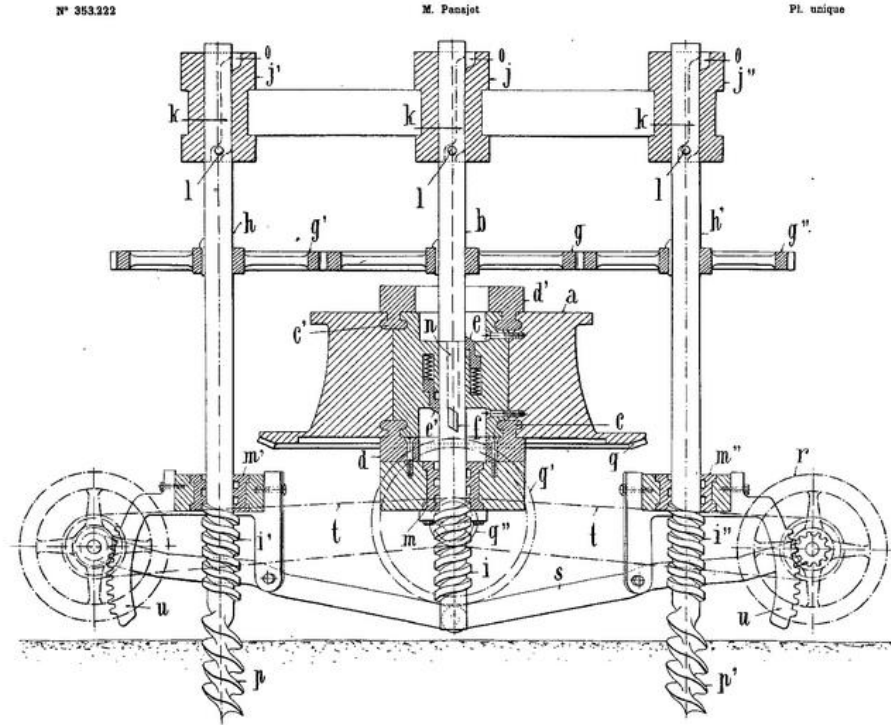
Case Study 1

CN109348771A Lawn smash-ridging bottom soil pulverizing water storage and grass enriching ecological method



Case Study 1

Applicants	JEAN VICOL PANAJOT [RO] +
Inventors	PANAJOT JEAN VICOL [RO] +
Classifications	
IPC	A01B3/72;
CPC	A01B3/72 (EP);
Priorities	FR353222TA·1905-04-11
Application	FR353222DA·1905-04-11
Publication	FR353222A·1905-09-06
Published as	FR353222A



No inventive step



Case Study 1

2. WO2018154345 - SOIL CULTIVATION SYSTEM



PCT Biblio. Data Description Claims Drawings ISR/WOSA/A17[2][a] National Phase Notices Documents

PermaLink Machine translation ▼

Publication Number

WO/2018/154345

Publication Date

30.08.2018

International Application No.

PCT/HR2018/000003

International Filing Date

07.02.2018

IPC

A01B 3/68 2006.01 A01B 3/68 2006.01

A01B 3/72 2006.01

CPC

A01B 3/68 A01B 3/68 A01B 3/72

Applicants

GORDAN, Patic [HR]/[HR]

Inventors

GORDAN, Patic

Priority Data

P20170314A 24.02.2017 HR

Publication Language

English [EN]

Filing Language

English [EN]

Designated States

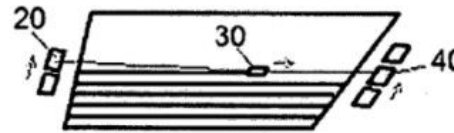
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Latest bibliographic data on file with the International Bureau

Title

[EN] SOIL CULTIVATION SYSTEM
[FR] SYSTEME DE CULTURE DU SOL

FIG 4



Abstract

[EN]

The invention concerned refers to the soil cultivation system consisting of 3 separate units; the left unit [20], the right unit [40] and the central unit [30] which, through mutual action, cultivate the soil as the central unit moves across the field so that the left unit [20] or the right unit [40] are fixed in the ground with an auger [3] and are pulling the central unit [30] in their direction with a winch [1], with the central unit cultivating the soil with its attachments [14] or [15] and [18] as it moves across the field.

[FR]

La présente invention concerne le système de culture du sol constitué de 3 unités séparées : l'unité de gauche [20], l'unité de droite [40] et l'unité centrale [30] qui, par action mutuelle, cultivent le sol lorsque l'unité centrale se déplace à travers le champ de sorte que l'unité de gauche [20] ou l'unité de droite [40] sont fixées dans le sol avec une vis sans fin [3] et tirent l'unité centrale [30] dans leur sens à l'aide d'un treuil [1], l'unité centrale cultivant le sol avec ses attelages [14] ou [15] et [18] lorsqu'elle se déplace à travers le champ.



Case Study 2



Case Study 2

پهپاد برای تمیز کردن شیشه ساختمان های بلند



Case Study 2-claims

تمیز کردن سطح و شیشه ساختمان	فشار پمپ	شستشو با آب و مواد شوینده	پهپاد	ادعای ۱
	مکانیزم شستشوگر	ایستگاه زمینی کنترل و هدایت	پیکره اصلی	ادعای ۲
		دوربین فیلم/عکس برداری	حسگر عدم برخورد با موانع	ادعای ۳



Case Study 2

پهپاد Drone UAV (Unmanned aerial vehicles) B64C39/02 B64C39/024 B64U2101/00	شستشو آب و مواد شوینده Wash* Clean* Water Spray Wipe B64D1/18 B64D1/16	فشار پمپ Pressure Pump nozzle	تمیز کردن سطح ساختمان Building Window Surface Glass A47L1/00	ادعای ۱
پیکره اصلی main body	ایستگاه زمینی کنترل و هدایت Control station navigation			ادعای ۲
حسگر عدم برخورد با موانع Obstacle sensor	مکانیزم شستشوگر cleaner module	دوربین فیلم/عکس برداری Camera		ادعای ۳



Case Study 2

Espacenet
 European Patent Office
 Office européen des brevets
 Patent search

claims any "window" AND claims any "drone" AND claims any "clean*" AND claims any "water" Office/La

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 Advanced search
 Filters
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Home > Results > CN212788412U

Query language: en de fr ▼

AND ▼ + Field

Claims ▼ any ▼ → Group

window ×

Claims ▼ any ▼ → Group

drone ×

Claims ▼ any ▼ → Group

clean* ×

Claims ▼ any ▼ → Group

water ×

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82 results found

List view List content Sort by
 Text only ▼ All ▼ Relevance ▼

(0 patents selected) **Select the first 20 results**
 The utility model discloses a high-rise window-cleaning unmanned aerial vehicle with a protection structure, which relates to the technical field of unmanned aerial vehicles, and comprises an unmanned aerial

2. High-altitude glass cleaning combined device
 CN212788412U • 2021-03-26 • UNIV NANCHANG
Earliest priority: 2020-04-17 • Earliest publication: 2021-03-26
 The utility model provides a high-altitude glass cleaning combination device which comprises an unmanned aerial vehicle and a window cleaning robot, the unmanned aerial vehicle comprises an upper

3. Intelligent environment purification system based on...
 CN109191708A (B) • 2019-01-11 • SUZHOU SHANGXIN...
Earliest priority: 2018-08-17 • Earliest publication: 2019-01-11
 The invention relates to an intelligent environment purification system based on mobile payment, which comprises a multi-story building, an unmanned aerial vehicle (UAV) device, a splicing device, a purification

4. Novel unmanned aerial vehicle for pesticide spraying
 CN211558584U • 2020-09-25 • HANGZHOU HUAJIANG AGR

☆ CN212788412U High-altitude glass cleaning combined device

Drawings ▼

CN 212788412 U 说明书附图 1/4 页



图1

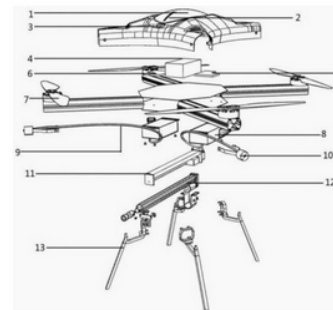


图2



Case Study 2

WO2019172700A1

DRONE FOR CLEANING WINDOW GLASS OF HIGH-RISE BUILDING

US20170340176A1

Drone cleaning device

EP3126067B1

automated glass cleaning flying drone system

US10597156B2



Case Study 2



Case Study 2



camera



Case Study 3

سطل زباله هوشمند



Case Study 3-claims

ارسال پیام هشدار از راه دور	تشخیص حجم زباله در مخزن	تشخیص بو	باز/بسته شدن اتوماتیک درب	سطل زباله ساختمان	ادعای ۱
	حذف بو با ازن	سیستم تولید ازن	حسگر متان	حسگر آمونیاک	ادعای ۲ (تشخیص بو)
			تشخیص پر شدن مخزن	حسگر فاصله سنج مادون قرمز	ادعای ۳ (سطح زباله)
		اعلام هشدار تخلیه	پردازنده	فرستنده رادیویی	ادعای ۴ (ارسال پیام)
		محور لولایی	موتور	سنسور تشخیص جسم	ادعای ۵ (باز و بسته)



Case Study 3





IF you have any questions, feedback or suggestions please write to me:

IP.ramezani@gmail.com

از توجه شما متشکرم

