

Aspecte problematice în proprietatea intelectuală induse de aplicarea metodelor moderne de creație tehnică în protezare

Drd. Bioing. Dimitrie-Cristian FODOR

TUIASI
Universitatea Tehnică
"Gheorghe Asachi" din Iași





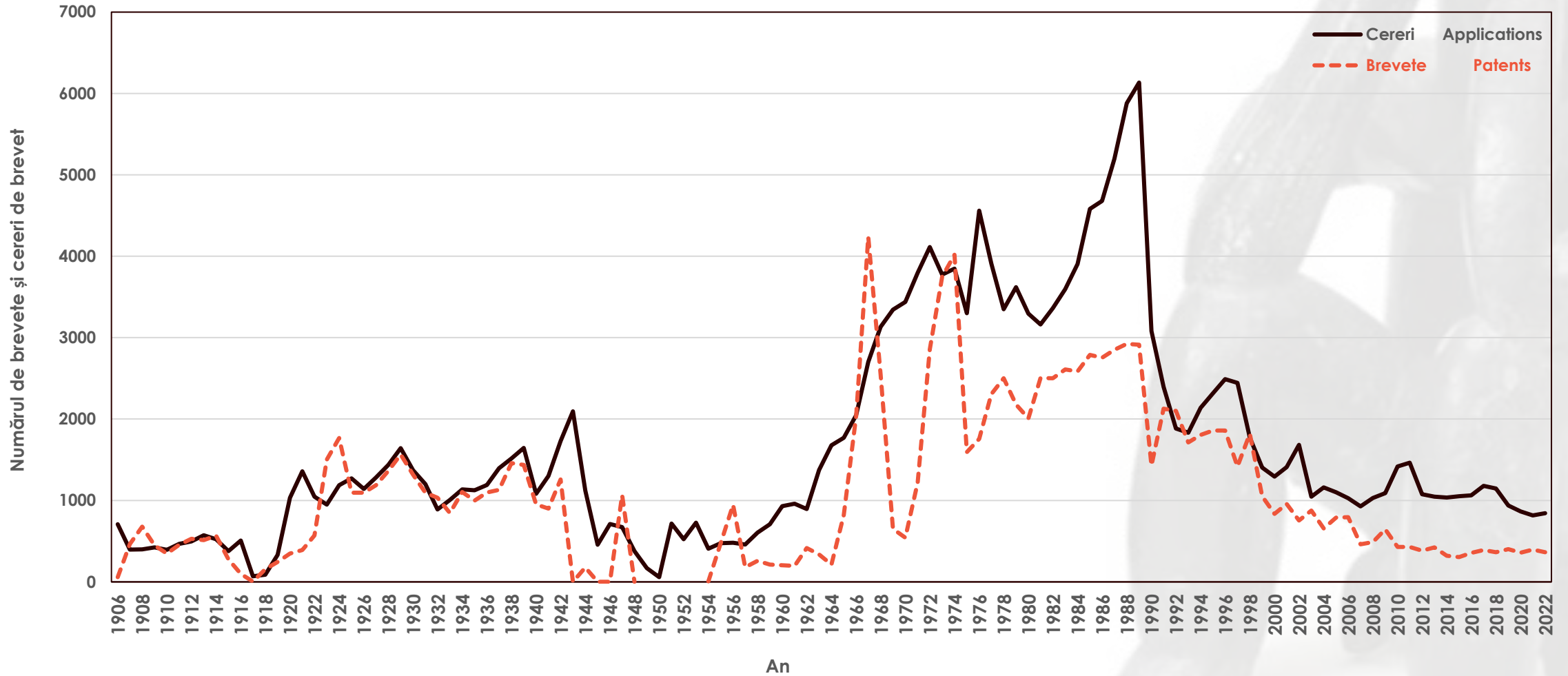
Cuprins

- I. Stadiul proprietății intelectuale în România;
- II. Aplicarea metodelor de creație tehnică în protezare;
- III. Ierarhizarea metodelor de creație tehnică;
- IV. Invenția supremă – *mașina de inventat*;
- V. Gândirea actului creator – în relație cu AI;
- VI. Invenții bazate pe inteligență artificială;
- VII. Creativitatea *inventatorului artificial*;
- VIII. Concluzii;
- IX. Referințe.



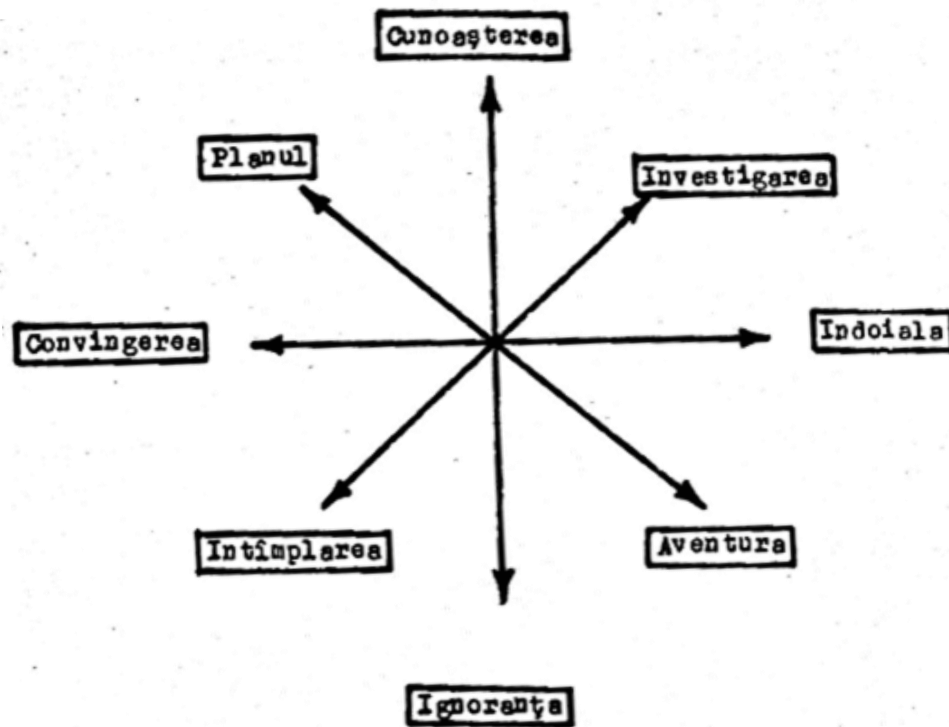


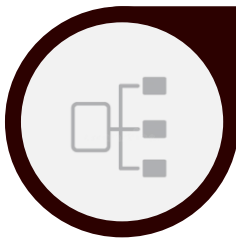
Cererile de brevet depuse și brevetele acordate în perioada 1906-2022





Antitezele gândirii actului creator





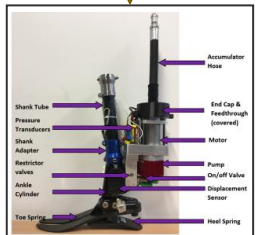
Metode clasice de creație tehnică

Proteze operate cu actuatore electrohidraulice

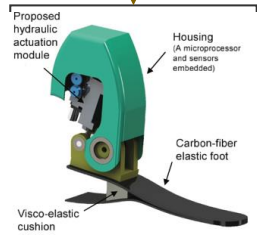
Tehnica EHA (Electro-Hidrostatic Actuators)

Metoda clasică de operare

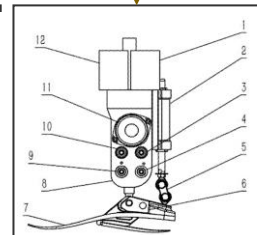
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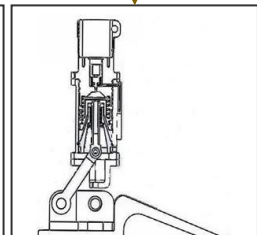
Yu și colab., 2020



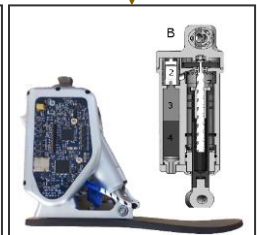
Woo și colab., 2014



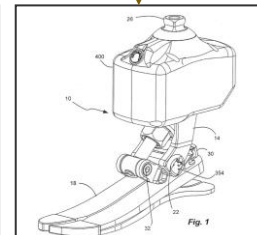
Wang și colab., Xingjian et. al – 2018



Wang și colab., 2021

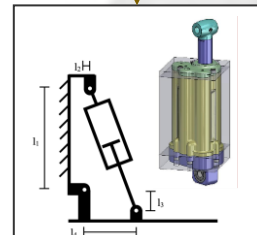


Bartlett și colab., 2019

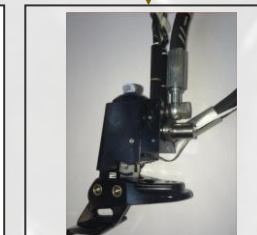


Palmer și colab., 2015

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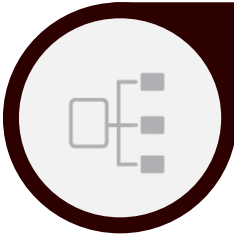


Bartlett și colab., 2017

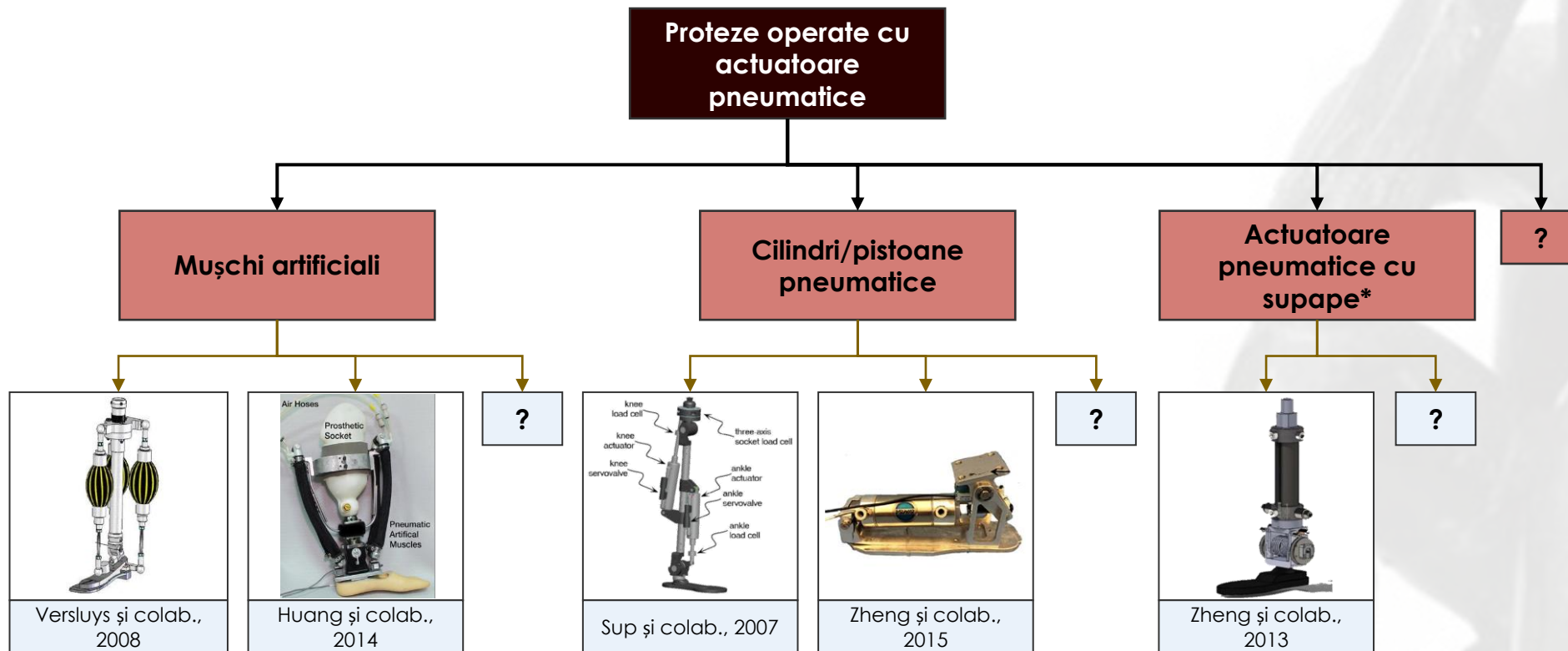


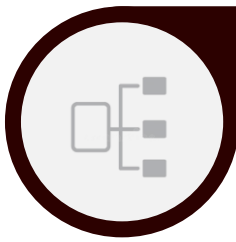
Yu și colab., 2015

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Metode clasice de creație tehnică





Metode clasice de creație tehnică

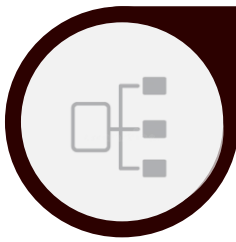
Name of solutions according to classification criterion A (number of forces acting on the respiratory medium source)

		Name of solutions according to classification criterion B (mechanisms for transforming rotational motion into rectilinear motion)		Name of solutions according to classification criterion C (the pressure generating device)		
				Bag valve mask (BVM)	Bellows	
		C ₁	C ₂			
A single force	A ₁	Screw-nut mechanism	B ₁	A ₁ B ₁ C ₁	A ₁ B ₁ C ₂	
		Rack and pinion mechanism	B ₂	A ₁ B ₂ C ₁	A ₁ B ₂ C ₂	
		Cable transmission	B ₃	A ₁ B ₃ C ₁	A ₁ B ₃ C ₂	
		Crankshaft mechanism	B ₄	A ₁ B ₄ C ₁	A ₁ B ₄ C ₂	
		Oscillating slide mechanism	B ₅	A ₁ B ₅ C ₁	A ₁ B ₅ C ₂	
		Cam mechanism	B ₆	A ₁ B ₆ C ₁	A ₁ B ₆ C ₂	
		Worm and worm wheel	B ₇	A ₁ B ₇ C ₁	A ₁ B ₇ C ₂	
	Two forces	A ₂	Screw-nut mechanism	B ₁	A ₂ B ₁ C ₁	A ₂ B ₁ C ₂
			Rack and pinion mechanism	B ₂	A ₂ B ₂ C ₁	A ₂ B ₂ C ₂
			Cable transmission	B ₃	A ₂ B ₃ C ₁	A ₂ B ₃ C ₂
			Crankshaft mechanism	B ₄	A ₂ B ₄ C ₁	A ₂ B ₄ C ₂
			Oscillating slide mechanism	B ₅	A ₂ B ₅ C ₁	A ₂ B ₅ C ₂
			Cam mechanism	B ₆	A ₂ B ₆ C ₁	A ₂ B ₆ C ₂
			Worm and worm wheel	B ₇	A ₂ B ₇ C ₁	A ₂ B ₇ C ₂

Plane morphological matrix of pulmonary ventilator functioning patterns

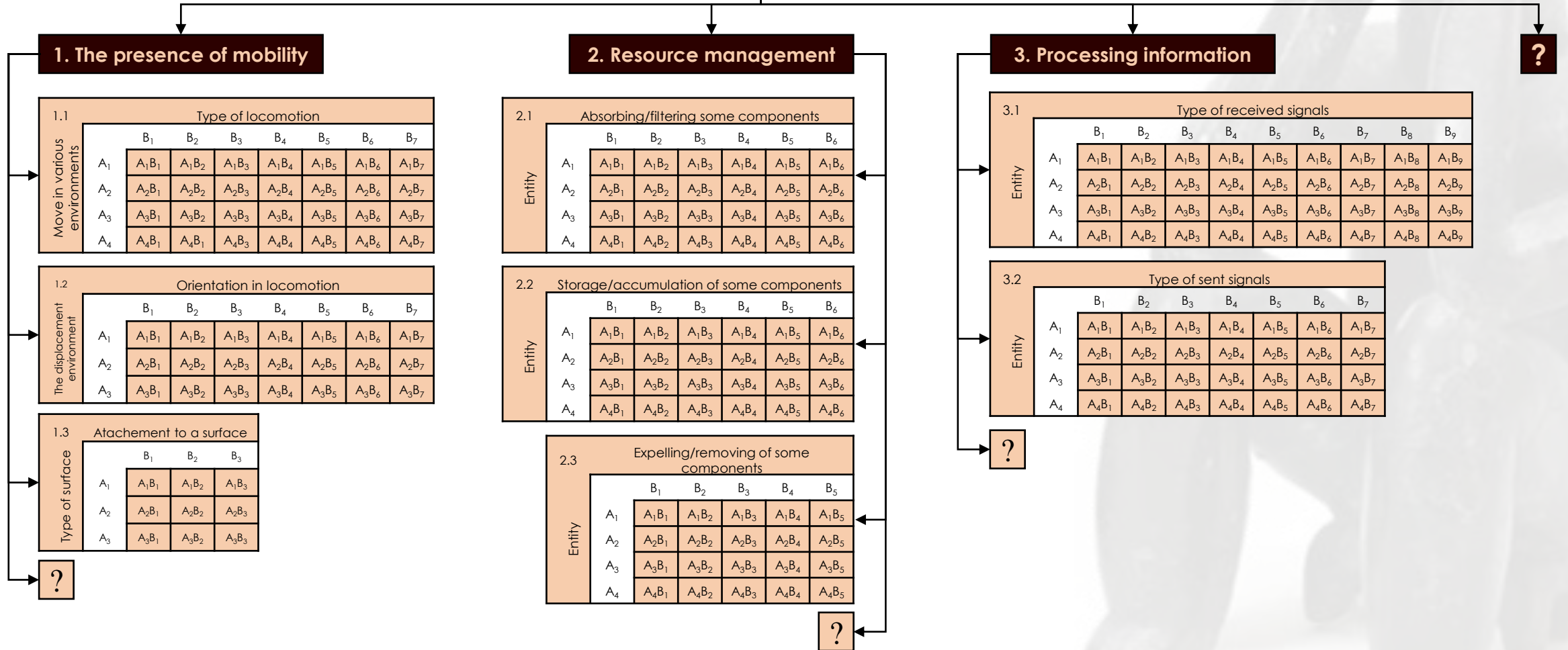
The characteristic scheme of the mechanism	A ₁ B ₁ C ₁ 	A ₁ B ₁ C ₂
The characteristic scheme of the mechanism	A ₁ B ₂ C ₁ 	A ₁ B ₂ C ₂
The characteristic scheme of the mechanism	A ₁ B ₃ C ₁ 	A ₁ B ₃ C ₂
The characteristic scheme of the mechanism	A ₁ B ₄ C ₁ 	A ₁ B ₄ C ₂
The characteristic scheme of the mechanism	A ₁ B ₅ C ₁ 	A ₁ B ₅ C ₂
The characteristic scheme of the mechanism	A ₁ B ₆ C ₁ 	A ₁ B ₆ C ₂
The characteristic scheme of the mechanism	A ₁ B ₇ C ₁ 	A ₁ B ₇ C ₂
The characteristic scheme of the mechanism	A ₂ B ₁ C ₁ 	A ₂ B ₁ C ₂
The characteristic scheme of the mechanism	A ₂ B ₂ C ₁ 	A ₂ B ₂ C ₂
The characteristic scheme of the mechanism	A ₂ B ₃ C ₁ 	A ₂ B ₃ C ₂
The characteristic scheme of the mechanism	A ₂ B ₄ C ₁ 	A ₂ B ₄ C ₂
The characteristic scheme of the mechanism	A ₂ B ₅ C ₁ 	A ₂ B ₅ C ₂
The characteristic scheme of the mechanism	A ₂ B ₆ C ₁ 	A ₂ B ₆ C ₂
The characteristic scheme of the mechanism	A ₂ B ₇ C ₁ 	A ₂ B ₇ C ₂

The visualized section (S1) of the planar morphological matrix of pulmonary ventilator mechanisms



Metode clasice de creație tehnică

Diagram of ideas in the field of biomimetics





Metode clasice de creație tehnică

Method index	The method of technical creation (the generic name from the specialized literature of the field - technical, medical, biomedical, etc.)	Inventory and ranking of ideas and technical solutions from the state of the art	The generation of new ideas and technical solutions in the targeted field (technical, biomedical, medical, etc.)	
			Ideas with a high degree of novelty	Ideas with a low degree of novelty
1	Method of hierarchical description of technical systems	●	○	
2	Method of idea diagrams	●	○	
3	Method of morphological matrices	●	○	
4	Combination of idea diagrams with morphological matrices	●	○	
5	Generalized object method (Belousov method)	●	○	
6	Brainstorming (Osborn method)	●		○
7	Imaginary brainstorming		○	
8	Philips 66 method	●		○
9	6-3-5 Brainwriting	●		○
10	Delphi method			○
11	Personal analogy method		○	
12	Induction method	●		○
13	Challenge assumptions		○	
14	Frisco method			○
15	Reverse engineering			○
16	Theory of inventive problem solving (TRIZ) – Altshuler method)	●	○	

- – utilizat numai in cazul metodelor care pot asigura inventarierea soluțiilor tehnice;
- – dezvăluie metodele prin care se poate ajunge la diferite grade de originalitate a ideilor;





Metode clasice de creație tehnică

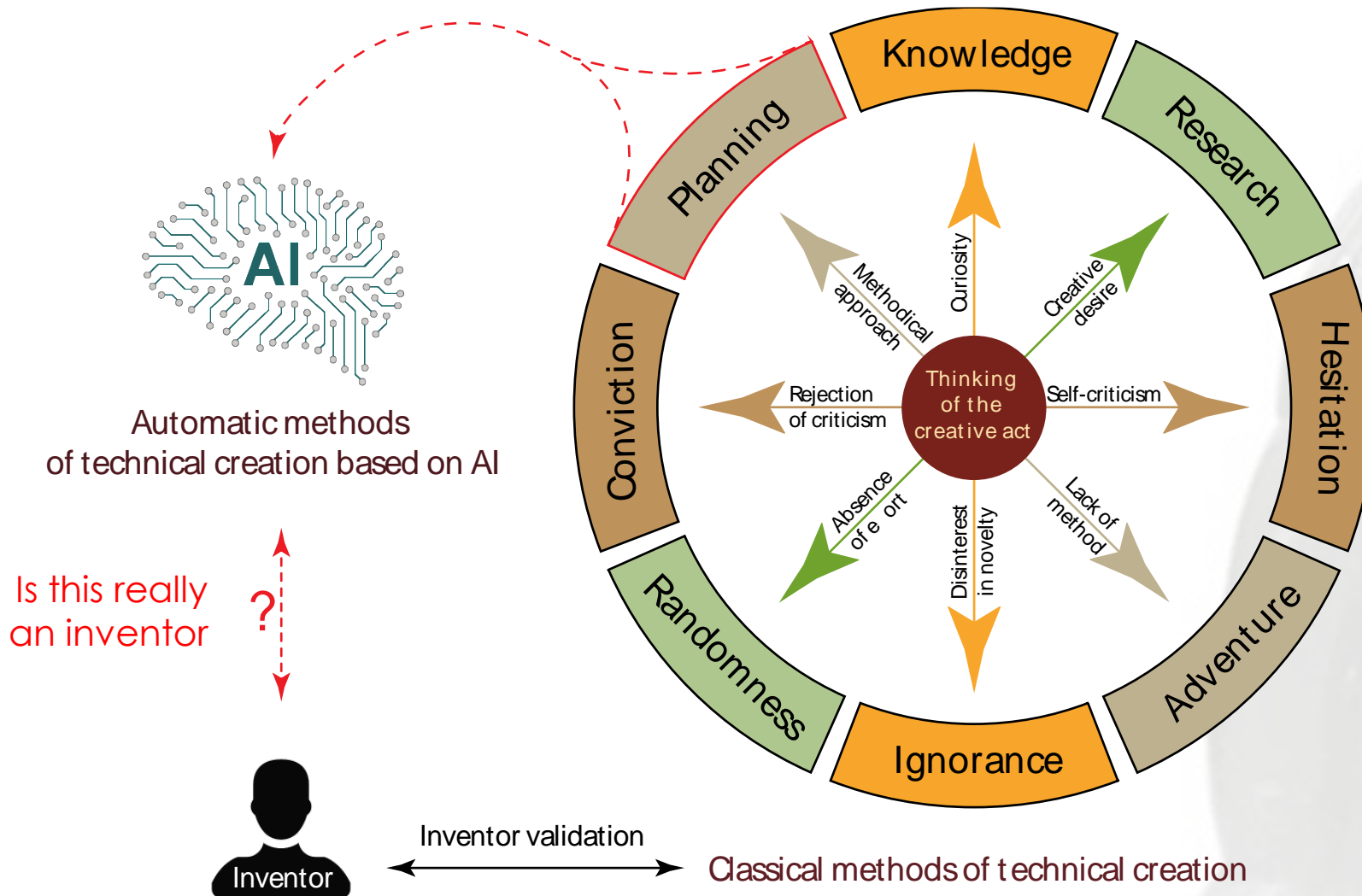
Method index	The method of technical creation (the generic name from the specialized literature of the field - technical, medical, biomedical, etc.)	Inventory and ranking of ideas and technical solutions from the state of the art	The generation of new ideas and technical solutions in the targeted field (technical, biomedical, medical, etc.)	
			Ideas with a high degree of novelty	Ideas with a low degree of novelty
17	Concept-Knowledge Theory (C-K Theory)	●	○	
18	Value analysis, value engineering			○
19	Analysis of Interconnected Decisions Areas (AIDA)	●	○	
20	ELECTRE – Élimination et Choix Traduisant la Réalité	●	○	
21	Electre-Phiz Complex (Electre-Philips-Zwicky)	●	○	
22	Analyse des Fonctions par Rapport aux Indices et aux Coûts – AFRICA	●	○	
23	PINDAR – Prospect of Independent Decisions Areas	●	○	
24	VETRA method	●	○	
25	Sherlock Holmes method			○
26	ICR (inform, create, reflect) network method			○
27	The Harvey Card Method			○
28	Lotus flower method			○
29	Method of heuristic approaches			○
30	Synectics - Gordon method			○
31	Biomimicry/biomimetics		○	
32	AI-generated inventions method	●	?	○

- – utilizat numai in cazul metodelor care pot asigura inventarierea soluțiilor tehnice;
- – dezvăluie metodele prin care se poate ajunge la diferite grade de originalitate a ideilor;
- ? – indică anumite îndoieli cu privire la originalitatea ideilor generate.





Antitezele gândirii actului creator în relație cu AI





The Artificial Inventor Project – Ultima invenție?



Malte Köllner



Ryan Abbot



Stephen Thaler





The Artificial Inventor Project – Ultima invenție?



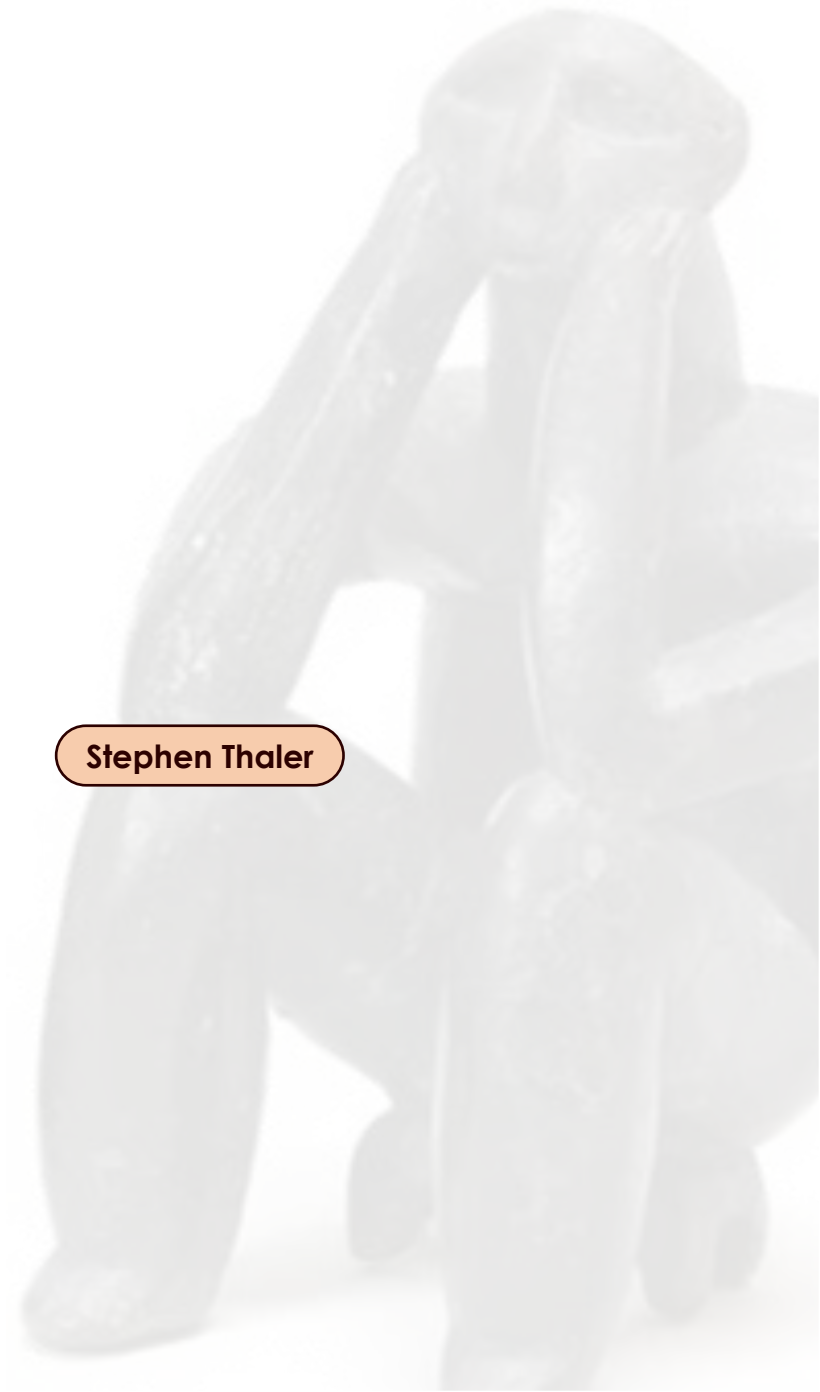
Malte **Köllner**



Ryan **Abbot**



Stephen **Thaler**





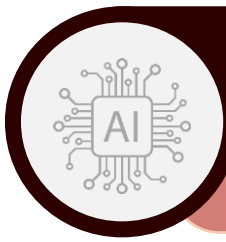
The Artificial Inventor Project – Ultima invenție?

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THE ARTIFICIAL INVENTOR PROJECT

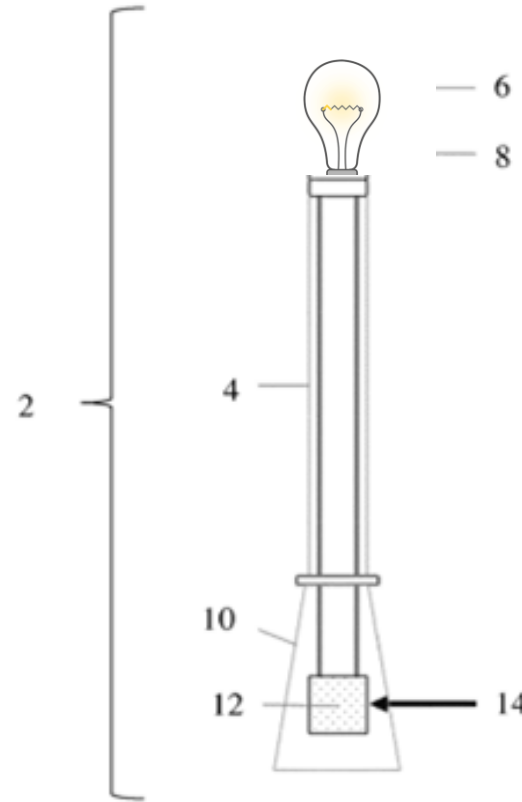
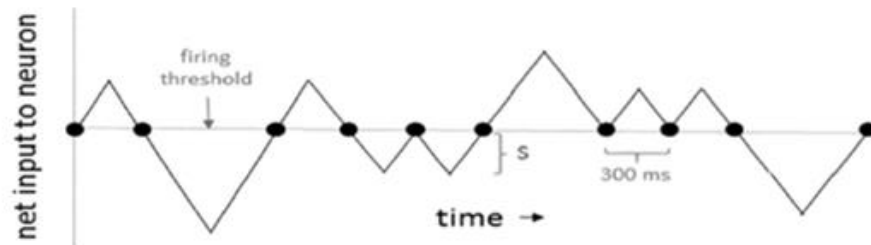
The Artificial Inventor Project includes a series of pro bono legal test cases seeking intellectual property rights for AI-generated output in the absence of a traditional human inventor or author. It is intended to promote dialogue about the social, economic, and legal impact of frontier technologies such as AI and to generate stakeholder guidance on the protectability of AI-generated output.

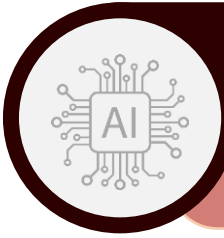
DABUS (Device for the Autonomous Bootstrapping of Unified Sentience)



Ultima metodă de creație tehnică?

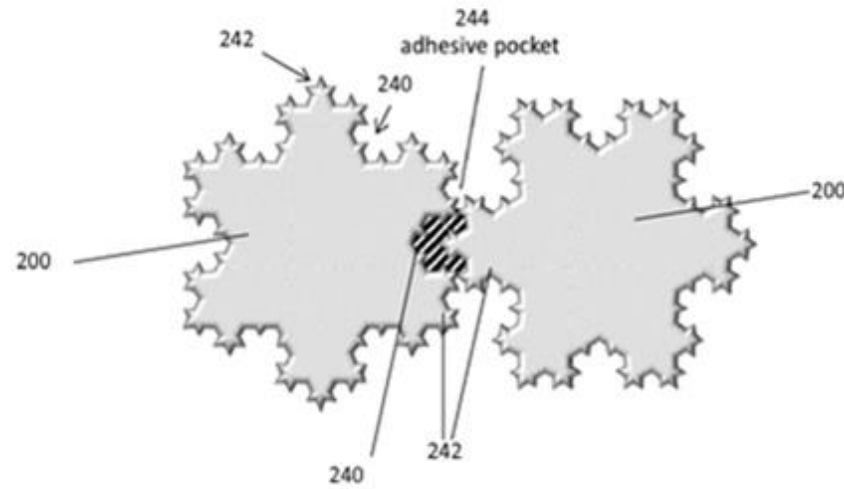
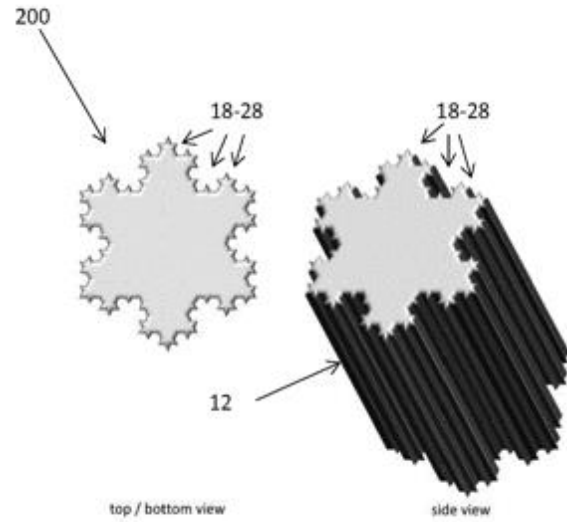
Dispozitive și metode pentru a atrage atenția

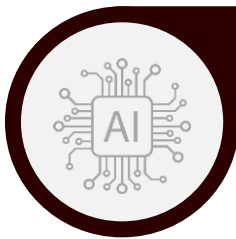




Ultima metodă de creație tehnică?

Container pentru alimente





Ultima metodă de creație tehnică?



(19) (11) EP 3 563 896 A1

(12) EUROPEAN PATENT APPLICATION

(43) Date of publication: 06.11.2019 Bulletin 2019/45 (51) Int. Cl.: A61M 21/00 (2006.01) A61M 16/00 (2006.01)

(21) Application number: 18275174.3

(22) Date of filing: 07.11.2018

(84) Designated Contracting States: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States: BA ME
Designated Validation States: KH MA MD TN

(72) Inventor: The designation of the inventor has not yet been filed

(74) Representative: Williams Powell
11 Staple Inn
London WC1V 7QH (GB)

Remarks:
*The designation of inventor does not meet the requirements laid down in Article 81 and Rule 19 EPC.
*Amended claims in accordance with Rule 137(2) EPC.

(71) Applicant: Thaler, Stephen L.
St. Charles MO 63303 (US)

(54) DEVICES AND METHODS FOR ATTRACTING ENHANCED ATTENTION

(57) The present invention discloses devices and methods for attracting enhanced attention. Devices include: an input signal of a lacunar pulse train having characteristics of a pulse frequency of approximately four Hertz and a pulse-train fractal dimension of approximately one-half, and at least one controllable light source configured to be pulsatingly operated by the input signal, wherein a neural flame emitted from at least one controllable light source as a result of the lacunar pulse train is adapted to serve as a uniquely-identifiable signal beacon over potentially-competing attention sources by selectively triggering human or artificial anomaly-detection filters, thereby attracting enhanced attention.

```

    graph TD
      20[20 Generate pulse train having frequency of 4 Hz and fractal dimension of 1/2] --> 22[22 Fill buffer with lacunar pulse train]
      22 --> 24[24 Transmit lacunar pulse train from buffer to controllable light source]
      26[26 optionally Randomly remove pulses from lacunar pulse train in buffer] -.-> 22
  
```

Figure 2

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EP 3 563 896 A1

(19) (11) EP 3 564 144 A1

(12) EUROPEAN PATENT APPLICATION

(43) Date of publication: 06.11.2019 Bulletin 2019/45 (51) Int. Cl.: B65D 6/02 (2006.01) B65D 8/00 (2006.01) B65D 6/00 (2006.01) B65D 13/02 (2006.01) B65D 21/02 (2006.01) B65D 1/02 (2006.01)

(21) Application number: 18275163.6

(22) Date of filing: 17.10.2018

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(71) Applicant: Thaler, Stephen L.
St. Charles MO 63303 (US)

(54) FOOD CONTAINER

(57) A container (10) for use, for example, for beverages, has a wall (12) with an external surface (14) and an internal wall (16) of substantially uniform thickness. The wall (12) has a fractal profile which provides a series of fractal elements (18-28) on the interior and exterior surfaces (14-16), forming pits (40) and bulges (42) in the profile of the wall and in which a pit (40) as seen from one of the exterior or interior surfaces (12, 14) forms a bulge (42) on the other of the exterior or interior surfaces (12, 14). The profile enables multiple containers to be coupled together by inter-engagement of pits and bulges on corresponding ones of the containers. The profile also improves grip, as well as heat transfer into and out of the container.

Fig. 6

Printed by Jouve, 75001 PARIS (FR)

EP 3 564 144 A1

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau
(43) International Publication Date: 23 April 2020 (23.04.2020)

(11) International Publication Number: WO 2020/079499 A1

(51) International Patent Classification: B65D 6/02 (2006.01) B65D 21/02 (2006.01) B65D 8/00 (2006.01) B65D 1/02 (2006.01) B65D 6/00 (2006.01) A61M 16/00 (2006.01) B65D 13/02 (2006.01) A61M 21/00 (2006.01)

(71) Applicant: THALER, Stephen L. [US/US]; 1767 Waterfall Dr., St. Charles, Missouri 63303 (US).

(72) Inventor: DABUS, The invention was autonomously generated by an artificial intelligence; 1767 Waterfall Dr., St. Charles, Missouri 63303 (US).

(21) International Application Number: PCT/IB2019/057809 (74) Agent: ABBOTT, Ryan; 11601 Wilshire Blvd #2080, Los Angeles, CA 90024 (US).

(22) International Filing Date: 17 September 2019 (17.09.2019) (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA,

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Date: 18275163.6 17 October 2018 (17.10.2018) EP 18275174.3 07 November 2018 (07.11.2018) EP

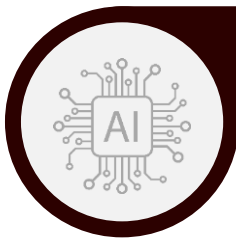
(54) Title: FOOD CONTAINER AND DEVICES AND METHODS FOR ATTRACTING ENHANCED ATTENTION

Fig. 15

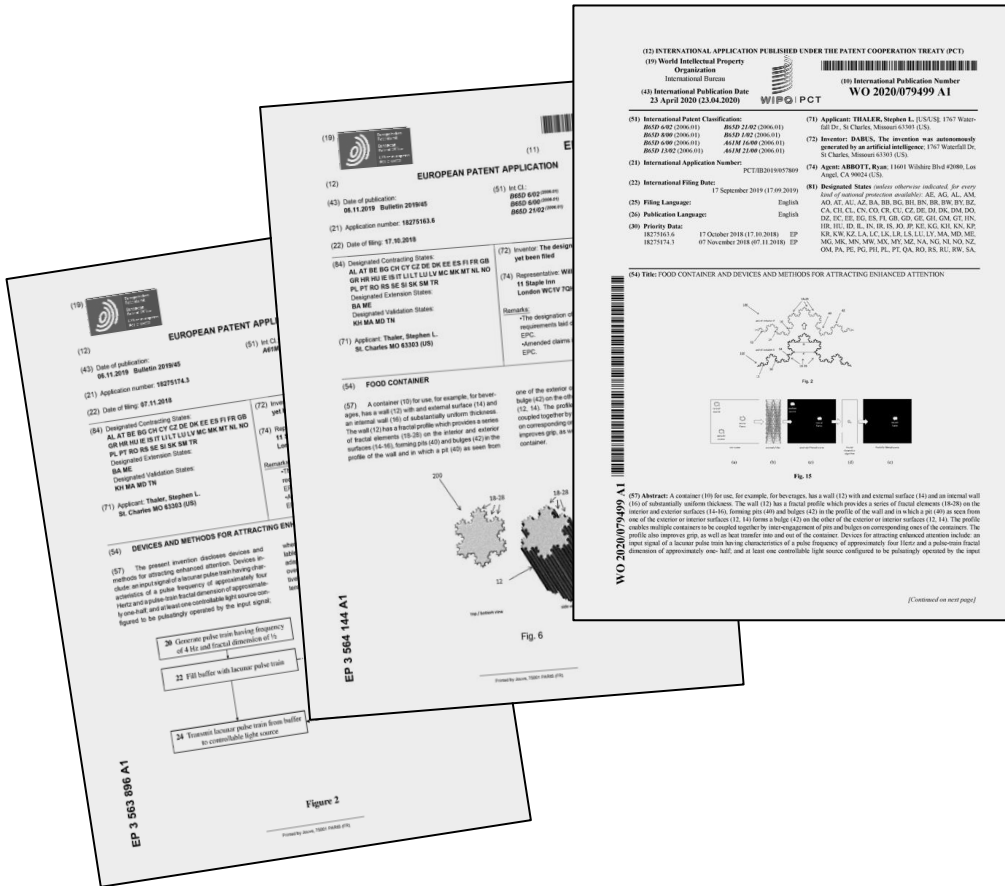
(57) Abstract: A container (10) for use, for example, for beverages, has a wall (12) with an external surface (14) and an internal wall (16) of substantially uniform thickness. The wall (12) has a fractal profile which provides a series of fractal elements (18-28) on the interior and exterior surfaces (14-16), forming pits (40) and bulges (42) in the profile of the wall and in which a pit (40) as seen from one of the exterior or interior surfaces (12, 14) forms a bulge (42) on the other of the exterior or interior surfaces (12, 14). The profile enables multiple containers to be coupled together by inter-engagement of pits and bulges on corresponding ones of the containers. The profile also improves grip, as well as heat transfer into and out of the container. Devices for attracting enhanced attention include: an input signal of a lacunar pulse train having characteristics of a pulse frequency of approximately four Hertz and a pulse-train fractal dimension of approximately one-half, and at least one controllable light source configured to be pulsatingly operated by the input

WO 2020/079499 A1

[Continued on next page]



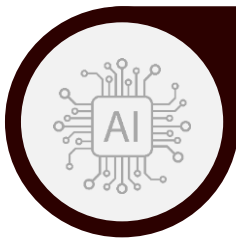
Ultima metodă de creație tehnică?



Depuse în Regatul Unit și EPO, Brazilia, Canada, China, India, Israel, Japonia, Noua Zeelandă, Republica Coreea, Arabia Saudită, Singapore, Elveția și Taiwan.

Există **contestații în desfășurare** în SUA, Marea Britanie, Europa și Germania.

Pentru prima dată în istorie, **în Africa de Sud - iunie 2021**, un brevet de invenție a fost acordat unei mașini-inventator.



Ultima metodă de creație tehnică?



Dispozitive și metode pentru a atragerea atenției

Container pentru alimente

(71) Applicant: Thaler, Stephen L. St. Charles MO 63303 (US)

(72) Inventor: The designation of the inventor has not yet been filed

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(19) (11) EP 3 564 144 A1

(12) EUROPEAN PATENT APPLICATION

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(72) Inventor: The designation of the inventor has not yet been filed

(74) Representative: Williams Powell 11 Staple Inn London WC1V 7QH (GB)

Remarks: -The designation of inventor does not meet the requirements laid down in Article 81 and Rule 19 EPC. -Amended claims in accordance with Rule 137(2) EPC.

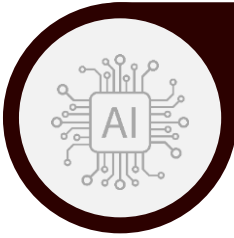
(71) Applicant: Thaler, Stephen L. St. Charles MO 63303 (US)

(54) FOOD CONTAINER

(57) A container (10) for use, for example, for beverages, has a wall (12) with an external surface (14) and an internal wall (16) of substantially uniform thickness. The wall (12) has a fractal profile which provides a series of fractal elements (18-28) on the interior and exterior surfaces (14-16), forming pits (40) and bulges (42) on the profile of the wall and in which a pit (40) as seen from one of the exterior or interior surfaces (12, 14) forms a bulge (42) on the other of the exterior or interior surfaces (12, 14). The profile enables multiple containers to be coupled together by inter-engagement of pits and bulges on corresponding ones of the containers. The profile also improves grip, as well as heat transfer into and out of the container.

Fig. 6

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Ultima metodă de creație tehnică?



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(71) Applicant: **THALER, Stephen L.** [US/US]; 1767 Waterfall Dr., St Charles, Missouri 63303 (US).
 (72) Inventor: **DABUS, The invention was autonomously generated by an artificial intelligence;** 1767 Waterfall Dr., St Charles, Missouri 63303 (US).

(21) International Application Number: PCT/IB2019/057809 (74) Agent: **ABBOTT, Ryan**, 11601 Wilshire Blvd #2080, Los Angeles, CA 90024 (US).

(22) International Filing Date: 17 September 2019 (17.09.2019) (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA,

(25) Filing Language: English
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(30) Priority Data:
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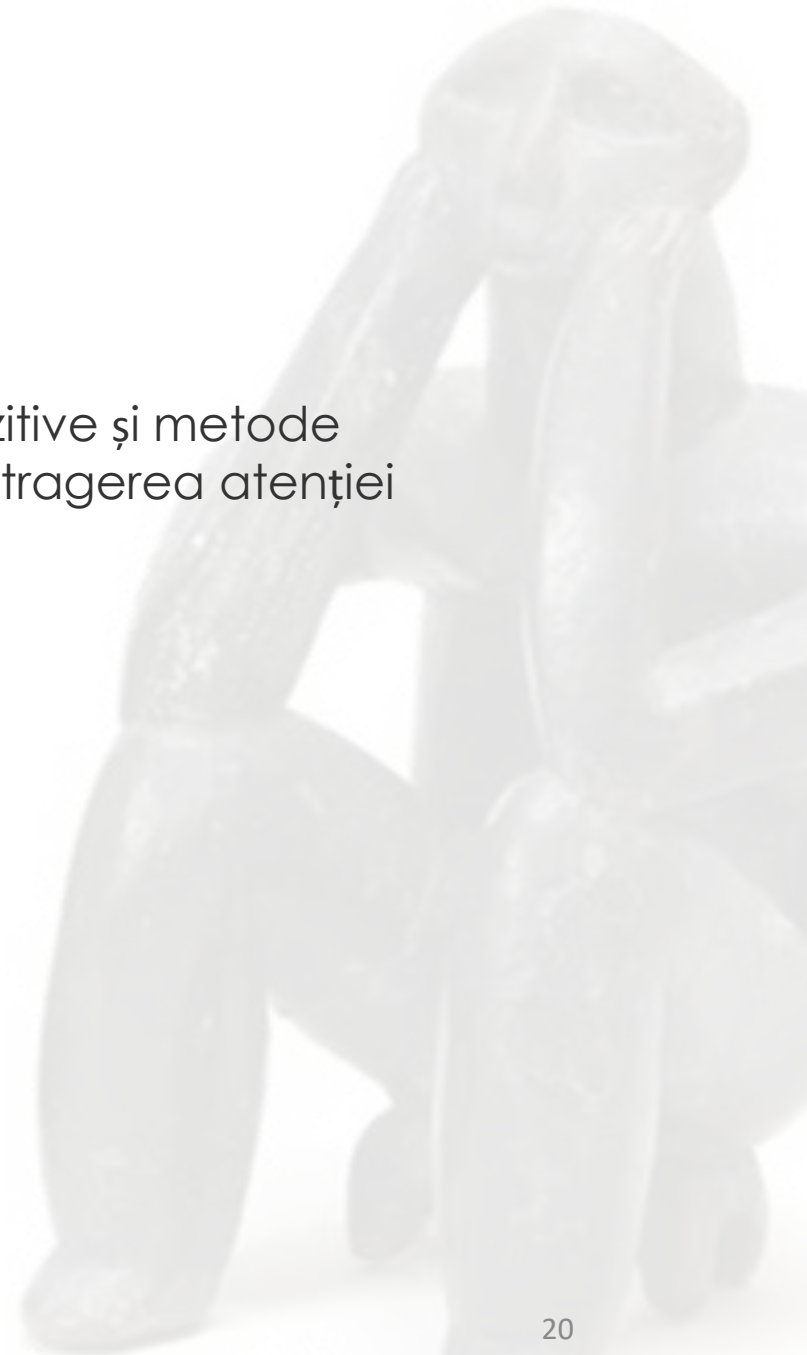
(54) Title: **FOOD CONTAINER AND DEVICES AND METHODS FOR ATTRACTING ENHANCED ATTENTION**

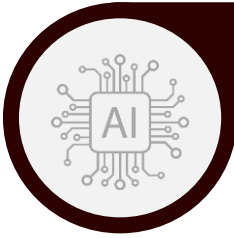
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WO 2020/079499 A1

[Continued on next page]

Dispozitive și metode pentru atragerea atenției





Ultima metodă de creație tehnică?



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WO 2020/079499 A1

[Continued on next page]

Container pentru alimente și dispozitive și metode pentru atragerea atenției

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(72) Inventor: **DABUS, The invention was autonomously generated by an artificial intelligence;** 1767 Waterfall Dr, St Charles, Missouri 63303 (US).



EPO vs. WIPO – invenții generate cu IA



(71) Applicant: **Thaler, Stephen L.**
St. Charles MO 63303 (US)

(72) **Inventor:** The designation of the inventor has not yet been filed

Remarks:

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Creativitatea inventatorului artificial

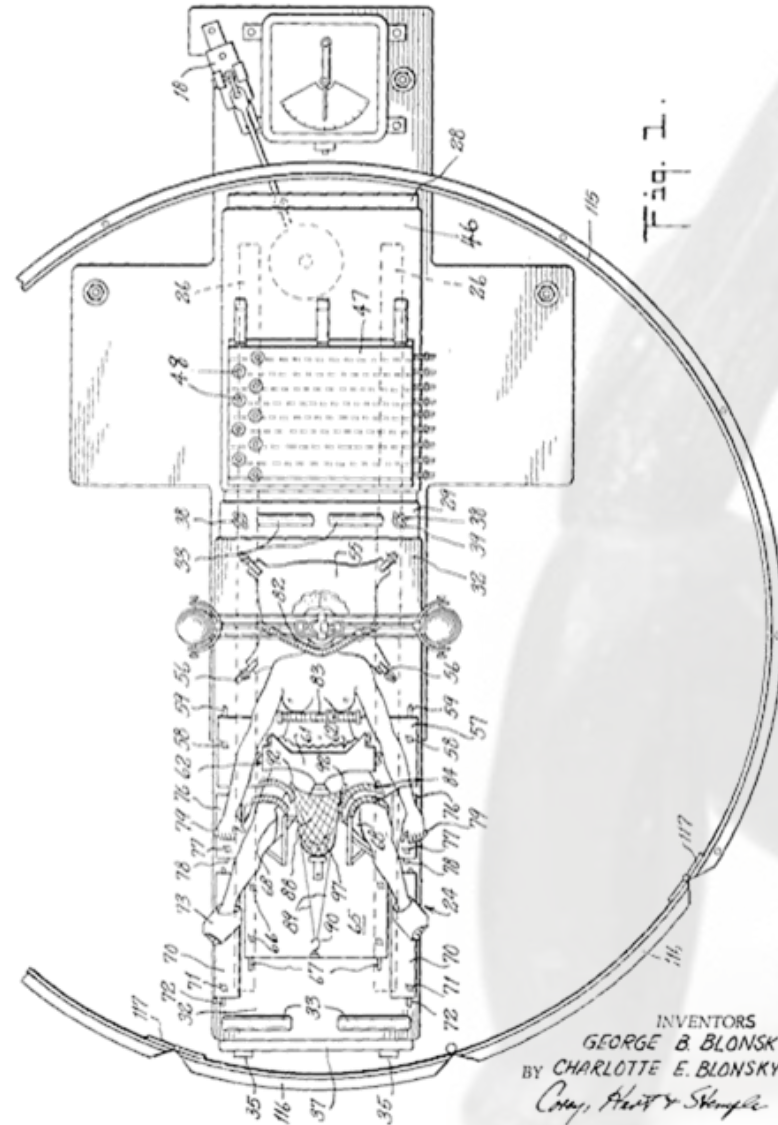
Nov. 9, 1965

G. B. BLONSKY ET AL
APPARATUS FOR FACILITATING THE BIRTH OF
A CHILD BY CENTRIFUGAL FORCE

3,216,423

Filed Jan. 15, 1963

4 Sheets-Sheet 1



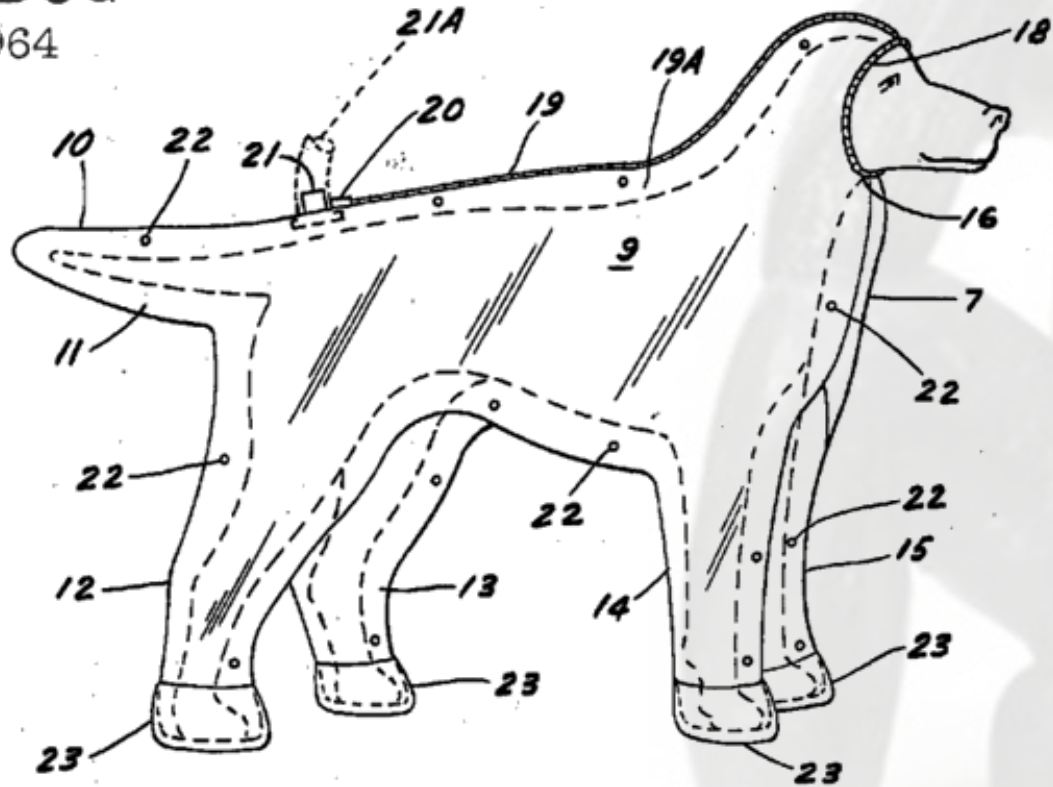
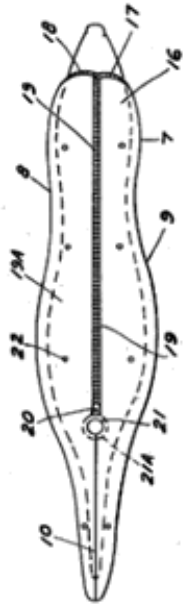
INVENTORS
GEORGE B. BLONSKY
BY CHARLOTTE E. BLONSKY
Chas. A. Hart & Skemp



Creativitatea inventatorului artificial

KESH SEROUN DUST COVER FOR DOG

Patented September 29, 1964
No. US 3,150,641

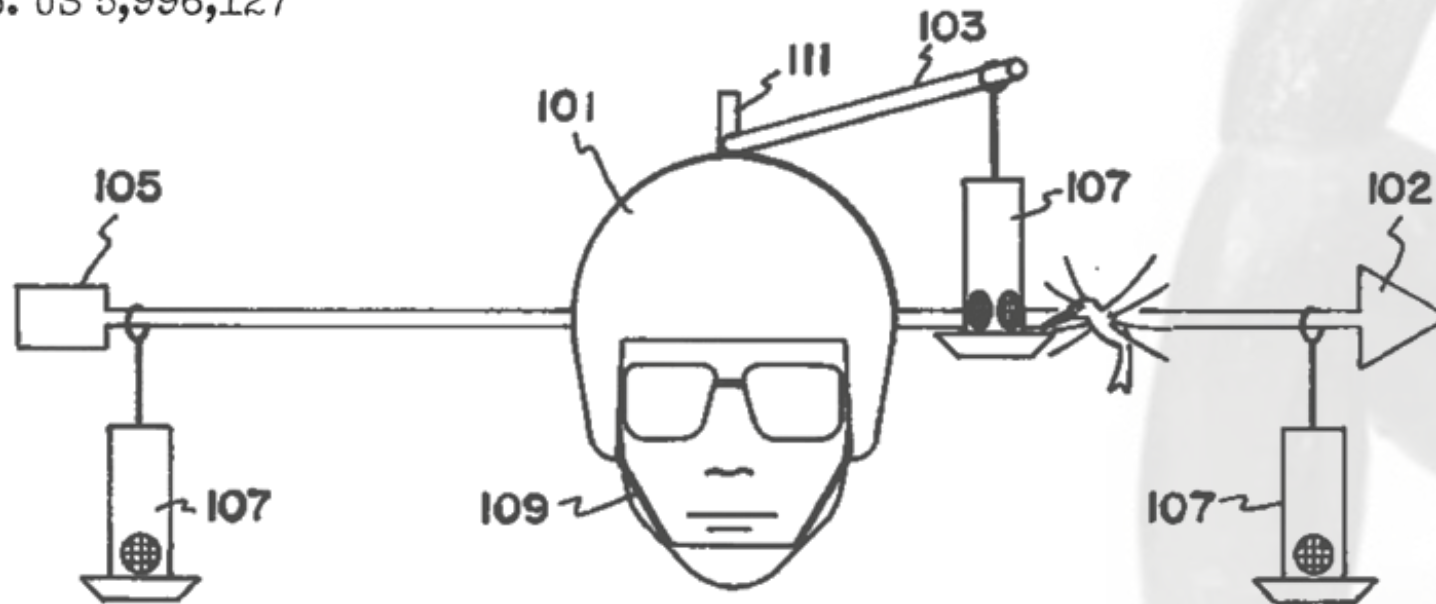




Creativitatea inventatorului artificial

DAVID M. LESLIE WEARABLE DEVICE FOR FEEDING AND OBSERVING BIRDS AND OTHER ANIMALS

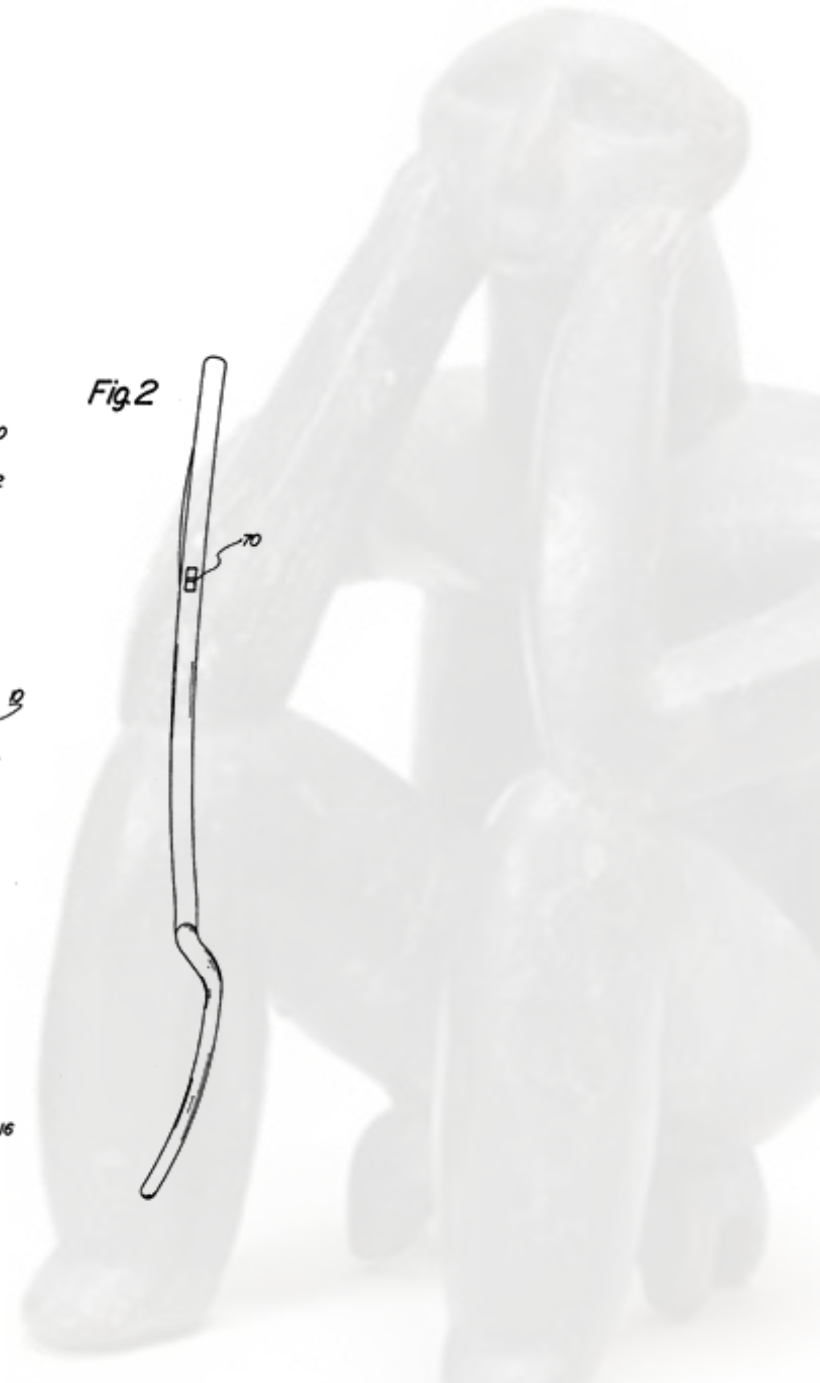
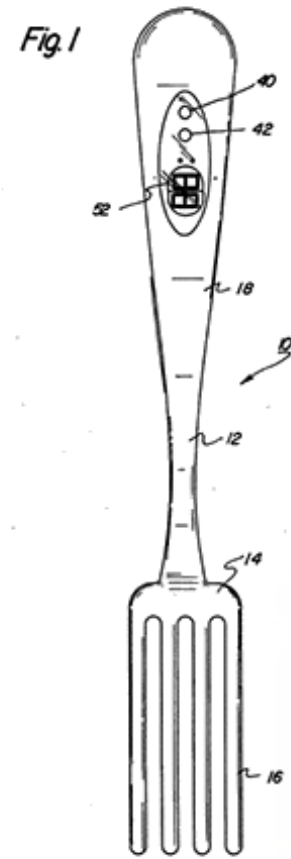
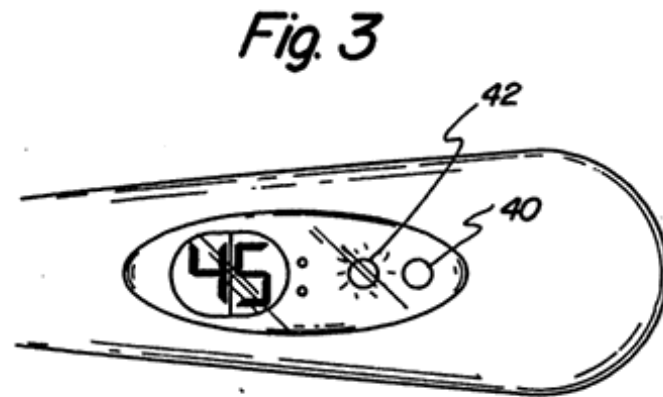
Patented December 7, 1999
No. US 5,996,127





Creativitatea inventatorului artificial

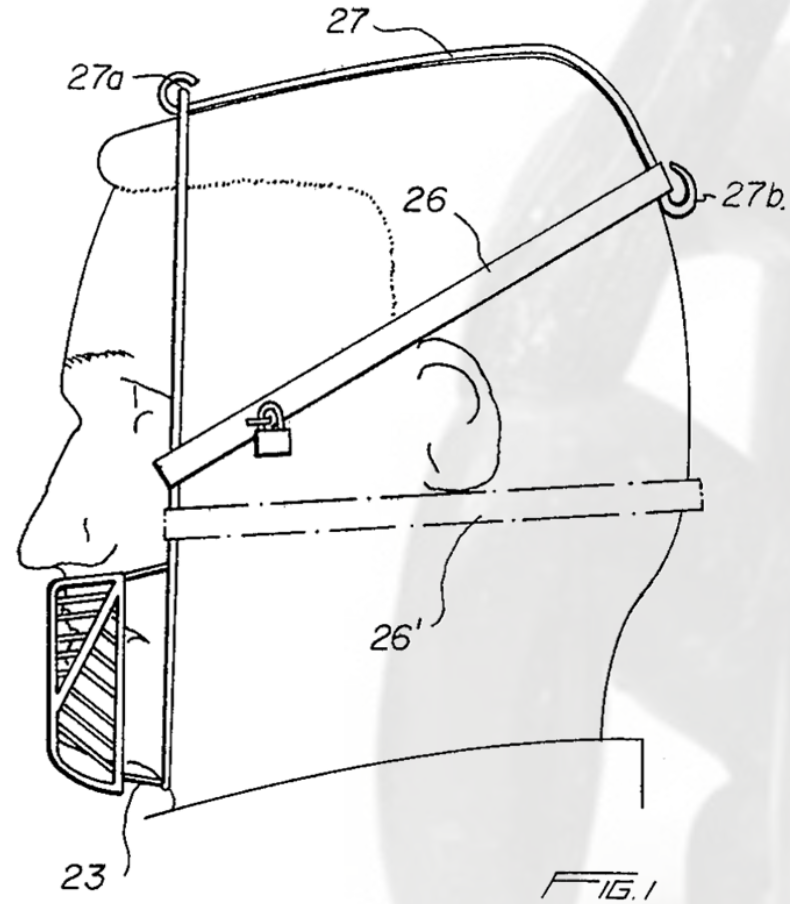
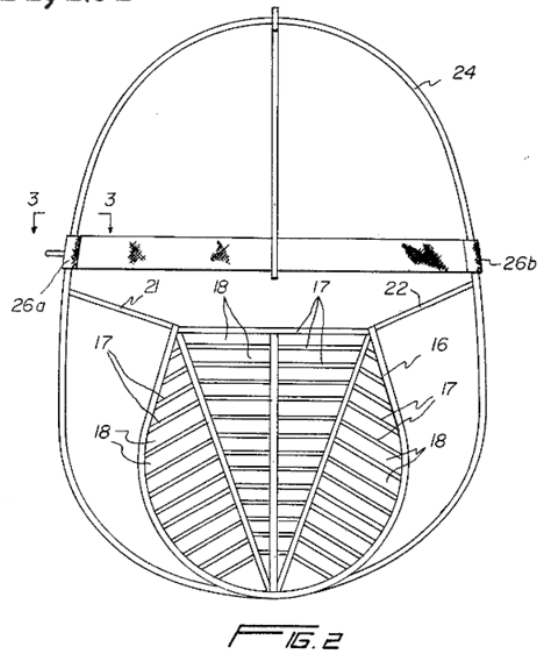
NICOLE M. DUBUS
SUSAN SPRINGFIELD
FORK WITH TIMER
Patented June 6, 1995
No. 5,421,089





Creativitatea inventatorului artificial

LUCY L. BARMBY
ANTI-EATING FACE MASK
Patented August 17, 1982
No. 4,344,424





Creativitatea inventatorului artificial

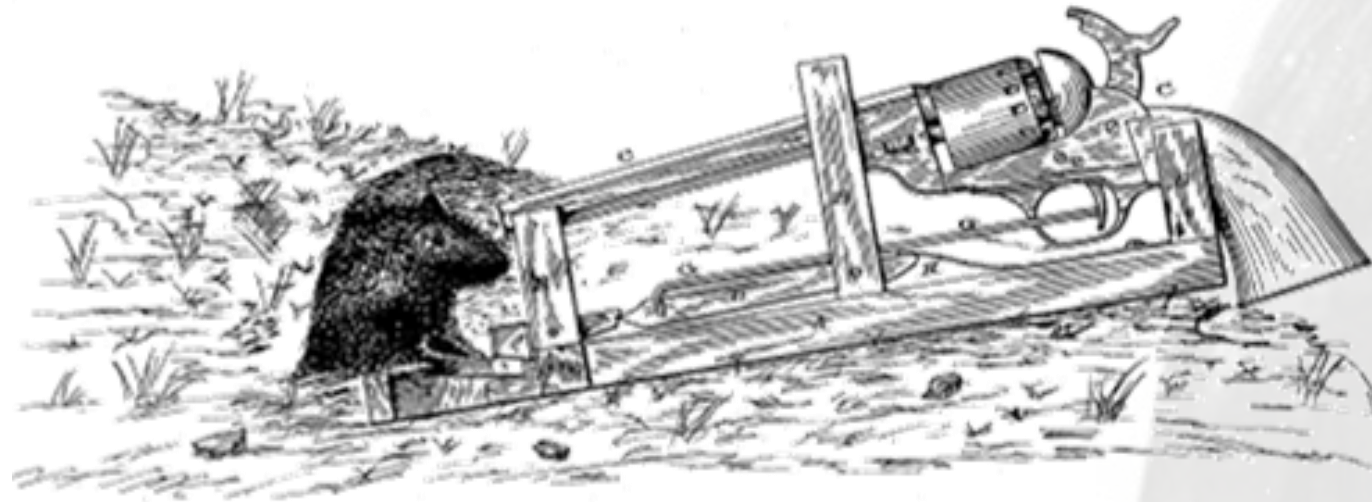
(No Model.)

J. A. WILLIAMS.

ANIMAL TRAP.

No. 269,766.

Patented Dec. 26, 1882.



Witnesses:

J. Clark
W. A. Lewis

Inventor:
Jas. A. Williams
per
F. A. Lehmann
attorney



Concluzii

Set util de metode și tehnici de creație – ierarhizate

Revizuirea tehnicilor clasice și moderne de creație

Punct de plecare pentru tinerii cercetători în procese creative

Gândirea în actul de creație – în relație cu AI



**Alegerea prolifică și adecvată a celei mai rapide metode
în procesul creativ.**





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Mulțumesc pentru atenție!



Cristian FODOR



cristifodorbim@gmail.com

Drd. Bioing. Dimitrie-Cristian **FODOR**

Universitatea Tehnică *Gheorghe Asachi* din Iași, România

