

EXHIBIT A — Twelve-Patent Core Liability Set

Post-7/21/2024 NGM CN-37833 Patents Listing Plaintiff as Attorney/Agent/Firm

Litman v. Goldberg, Index No. 524343/2025 (NY Sup. Ct., Kings County, Hon. Brian L. Gotlieb, J.S.C.) Prepared: 2026-04-25 **Source basis:** Live USPTO Open Data Portal (api.uspto.gov) query, IFW pulls, and grant XML AOR parsing for all 463 NGM Customer-Number-37833 patents granted between 7/21/2024 and 4/25/2026.

What this exhibit is

Twelve U.S. patents, issued between **July 23, 2024 and January 14, 2025** under NGM Customer Number 37833, each of which lists Plaintiff Richard C. Litman as the “Attorney, Agent, or Firm” on the patent face. Each constitutes a separate publication of Plaintiff’s name in connection with Defendant’s commercial legal services within the applicable limitations period (CPLR 215(3)).

Within the same window — July 21, 2024 through April 25, 2026 — Defendant caused **449 additional patents** to issue under the same Customer Number 37833 listing **Joshua B. Goldberg** as the Attorney, Agent, or Firm, and **one additional patent** listing **James Lafave**. The 12-449-1 split is empirical, drawn from the USPTO’s own grant XML.

This exhibit set, paired with Exhibit B (the 449-patent capability roll-up) and the accompanying CPLR 3123 Notice to Admit, supports liability under New York Civil Rights Law §§ 50-51 on a per-patent, per-publication basis and forecloses Defendant’s systemic-default and routing-artifact defenses.

The full timeline — pre-SOL course of conduct (CONTEXT, not standalone liability)

A live USPTO Open Data Portal pull on April 25, 2026 returned the full universe of 1,357 NGM Customer-Number-37833 patents granted between June 15, 2020 and April 25, 2026, classified by AOR attorney printed on the face:

Window	Duration	Litman	Goldberg	Lafave	Litman share
Pre-SOL (2020-06-15 → 2024-07-20)	4 years 1 month	875	5	0	99.4%
Post-SOL (2024-07-21 → 2026-04-25)	21 months	12	449	1	2.6%
Total	5 years 10 months	887	454	1	66.1%

Defendant used Plaintiff’s name as the overwhelming default for 4+ years. Then, in a window of approximately seven days centered on 6/5/2024 → 6/12/2024, Defendant flipped the default from Litman to Goldberg. After 7/16/2024 (the last pre-SOL Goldberg-AOR grant), the flip was complete.

The **5 pre-SOL Goldberg attributions** are themselves diagnostic — 1 on 1/2/2024 (a single anomaly) and 4 clustered on a single day, **2024-07-16** (just five days before the SOL cutoff of 2024-07-21). These four 7/16/2024 grants appear to be early rehearsals of the post-flip attribution scheme, with grant timing falling immediately before the SOL window opened.

The 875 pre-SOL Litman attributions are not standalone liability under CPLR 215(3) but are heavily probative of (i) the **commercial value of Plaintiff’s name to Defendant**, (ii) Defendant’s **knowledge** that Plaintiff’s name was being used in connection with each patent, (iii) Defendant’s **course of conduct** under *Halloran v. Va. Chems.*, 41 N.Y.2d 386 (1977), and (iv) the **damages calculation context** for the 12 within-SOL uses. See Pre-Limitations Foundation Memo ([output/PRE_LIMITATIONS_FOUNDATION_MEMO.md](#)).

The three-way smoking gun (proof that Box 2 of PTOL-85B is a manual choice)

PTOL-85 Part B (Issue Fee Transmittal) contains Box 2 — the field that controls the Attorney/Agent/Firm name printed on the patent’s face page. The form’s own instructions state: *“For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm... and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.”*

Three PTOL-85B forms in the record, all signed by **the same individual** (James Lafave, Reg. 71013) over the course of a single calendar year (2024), under the same firm letterhead (Nath, Goldberg & Meyer), under the same USPTO deposit account (14-0112), establish that Box 2 is a deliberate per-patent election:

	Form A	Form B	Form C
Application	18/612,504	18/628,953	(Goldberg sample, e.g.) 18/603,336
Patent (granted)	US 12,194,434 (1/14/2025)	US 12,127,901 (10/29/2024)	US 12,060,336 (8/13/2024)
IFEE date	2024-05-28	2024-09-25	2024-06-12
Authorized signer	/James Lafave/ Reg. 71013	/James Lafave/ Reg. 71013	/James Lafave/ Reg. 71013
Box 2 Line 1 (firm)	Nath, Goldberg & Meyer	Nath, Goldberg & Meyer	Nath, Goldberg & Meyer
Box 2 Line 2 (attorney)	Richard C. Litman	James Lafave	Joshua B. Goldberg
Assignee	King Saud University	King Saud University	King Faisal University

Same form. Same signer. Same firm. Same registration number. Three different names typed in Box 2 across four months. This forecloses the following defense theories:

- “Box 2 is automatic” — disproved (three different values)
- “Box 2 is the system default for CN-37833” — disproved (active alternates were used)
- “Lafave was just following standing instructions to print Litman’s name” — disproved (he typed Goldberg’s name and his own name)
- “Lafave didn’t know what was in Box 2” — disproved (he typed his own name in it)
- “Ministerial / clerical inertia” — disproved (manual choice across 17 documented forms by a registered practitioner)

The 16-form Lafave-signed PTOL-85B pattern

Per the existing analysis in `output/PTOL85_LAFAVE_FINDINGS.md`, James Lafave signed **16 PTOL-85B forms** between **December 18, 2023 and June 5, 2024 (169 days)**, and on every one of those forms he typed “Richard C. Litman” in Box 2. Of those 16 forms:

- **12 of 16** correspond to patents granted after the §51 SOL cutoff of 7/21/2024 — they are the patents in this Exhibit A set.
- 4 of 16 correspond to patents granted before 7/21/2024 (probative of willfulness, course of conduct, and notice; not standalone liability).

The pattern ended June 5, 2024 — 47 days before the SOL cutoff. It was succeeded by a Goldberg-attribution pattern (449 patents granted between 7/21/2024 and today; first new IFEE filed 6/12/2024, just seven days after the pattern’s last day). Lafave continued to sign PTOL-85Bs after June 2024 — the first known Goldberg-name PTOL-85B (US 12,060,336) was signed by Lafave on 6/12/2024. The single Lafave-self-attribution PTOL-85B (US 12,127,901) was signed by Lafave on 9/25/2024.

The transition is not gradual. It is a step-function abandonment of the Litman-name election by the same staffer who had personally signed 16 consecutive Litman-name forms over the prior 169 days.

Per-patent summary table

The 12 patents in this Exhibit A — **9 King Faisal University (KFU) + 2 King Saud University (KSU) + 1 Kuwait Institute for Scientific Research (KISR):**

EXHIBIT A – Twelve-Patent Core Liability Set

#	Patent No.	Issue Date	Application No.	Docket	Assignee	First Inventor	PTOL-85B Date	PTOL-85B Signer	POA Signer
A-1	12,043,608	2024-07-23	18/242,465	33120.91U	King Faisal University	M. M. Khalaf Ali	2024-04-25	Lafave	Gold
A-2	12,043,609	2024-07-23	18/379,906	33130.47U	King Faisal University	H. M. A. El-Lateef Ahmed	2024-04-26	Lafave	Lafa △
A-3	12,049,459	2024-07-30	18/241,394	33120.88U	King Faisal University	H. M. A. El-Lateef Ahmed	2024-02-15	Lafave	Gold
A-4	12,054,460	2024-08-06	18/414,442	33170.94A	King Faisal University	H. M. A. El-Lateef Ahmed	2024-06-03	Lafave	Gold
A-5	12,054,464	2024-08-06	18/428,327	33175.68A	King Faisal University	M. M. Khalaf Ali	2024-06-03	Lafave	Gold
A-6	12,062,780	2024-08-13	18/413,239	33160.59U	King Faisal University	A. Alshoaibi	2024-03-27	Lafave	Mey
A-7	12,065,424	2024-08-20	18/425,923	33175.60A	King Faisal University	H. M. A. El-Lateef Ahmed	2024-05-30	Lafave	Gold
A-8	12,071,437	2024-08-27	18/411,323	33150.41U	King Faisal University	C. Tratratt	2024-05-21	Lafave	Gold
A-9	D 1,046,141	2024-10-08	29/746,671	33056.38	King Saud University	L. S. Alsaleh	2024-06-05	Lafave	Reg. 1471
A-10	12,114,620	2024-10-15	18/241,049	32366.97U	Kuwait Inst. for Sci. Research	S. O. Asem	2024-04-17	Lafave	KISF Dir.
A-11	12,116,333	2024-10-15	18/511,800	33150.71A	King Faisal University	M. M. Khalaf Ali	2024-06-05	Lafave	Gold
A-12	12,194,434	2025-01-14	18/612,504	33056.80A	King Saud University	A. M. Atta	2024-05-28	Lafave	Gold

Per-staffer roll-up across the 12: - PTOL-85B signer (the Box-2 typist): **Lafave 12 / 12 = 100%** - POA signer: Goldberg 8 / 12 = 67%; Meyer 1; Lafave 1 (sole-actor patent); Reg. 147148 1; KISR Director General 1 - Lafave is the single common thread across all 12 patents.

All 12 dockets follow the legacy LLO/STI PracticeMaster 5-digit.2-digit numbering format (e.g., 33120.91U for KFU matters, 33056.80A / 33056.38 for KSU, 32366.97U for KISR). Per `project_docket_numbering.md`, this format pre-dates NGM’s PCLaw renumbering and identifies each patent as a Litman-originated client matter carried forward from his pre-2017 Litman Law Offices practice.

The per-patent use cascade — each patent anchors ~50-90 separately-dated § 51 uses

The 12 face pages are not the only § 51 uses tied to these patents. Each patent’s prosecution generates an Image File Wrapper (IFW) of USPTO documents and a stream of NGM-to-client correspondence. The IFW documents are addressed to “Richard C. Litman / Nath, Goldberg & Meyer / 112 S. West Street / Alexandria, VA 22314” (the registered address for USPTO Customer Number 37833), and Martha Long’s client emails about each patent contain Plaintiff’s name in subject lines and signature blocks. Each is a separately-dated commercial use of Plaintiff’s name.

#	Patent	Docket	Client	Face	IFW docs	(out / in)	Martha emails	
A-1	12,043,608	33120.91U	KFU	1	74	(22/38)	13	88
A-2	12,043,609	33130.47U	KFU	1	45	(16/20)	11	57
A-3	12,049,459	33120.88U	KFU	1	75	(26/28)	11	87
A-4	12,054,460	33170.94A	KFU	1	43	(15/21)	6	50
A-5	12,054,464	33175.68A	KFU	1	51	(17/24)	5	57
A-6	12,062,780	33160.59U	KFU	1	35	(13/16)	6	42
A-7	12,065,424	33175.60A	KFU	1	50	(20/23)	5	56
A-8	12,071,437	33150.41U	KFU	1	46	(17/20)	10	57
A-9	D 1,046,141	33056.38	KSU	1	46	(15/22)	0 △	47
A-10	12,114,620	32366.97U	KISR	1	62	(17/34)	0 △	63
A-11	12,116,333	33150.71A	KFU	1	80	(20/38)	10	91
A-12	12,194,434	33056.80A	KSU	1	53	(18/27)	0 △	54
	TOTAL			12	660	(216 / 311)	77	749

△ = KSU/KISR patents return zero from the *Martha-KFU* email index because Martha’s correspondence was primarily routed to the `kfu@4patent.com` alias. KSU/KISR client emails travel through different

staffers and aliases (ksu@, kistr@); the broader Martha-Litman-name email corpus contains 36,930 emails that have not yet been per-docket-mapped to KSU/KISR matters. The 77 Martha-email count is therefore a **conservative floor**.

Total separately-dated § 51 uses anchored to the 12-patent foundation: 769 conservative / 880 expansive.

Use type	Count	What it is
Patent face pages	12	The headline elections — Lafave typed “Richard C. Litman” in Box 2 of each PTOL-85B
IFW outgoing documents	216	USPTO-issued documents (Office Actions, Notices, Issue Notifications, Petition Decisions, etc.) addressed to “Richard C. Litman / Nath, Goldberg & Meyer / 112 S. West Street / Alexandria, VA 22314” via CN-37833. Visually verified on the Notice of Allowance for US 12,043,608 (mailed 6/17/2024) and the Issue Notification for US 12,194,434 (mailed 12/25/2024) — sample renderings in <code>output/patent_count_refresh/ifw_sample_pdfs/png/</code> .
IFW incoming documents	311	NGM-filed documents (Specifications, Claims, Remarks, Form 1449, IDS, etc.) filed under the Richard C. Litman correspondence address
Other IFW (PA, OATH, etc.)	133	Power of Attorney, Inventor’s Oath, Application File Receipts, etc. — all bearing Litman’s name in the correspondence block
Per-docket emails (corpus search)	97 — 208	Office Action notifications, application-filed notifications, status updates sent (overwhelmingly by Martha Long, with isolated entries from Joshua Goldberg and Lindsay Dunbar) to the client, citing the docket and bearing Litman’s name in subject line / signature block. The 97 figure counts unique emails in the structured per-docket index; the expansive 208 figure adds 111 mentions from the discovery TEXT corpus (heavy on KISR docket 32366.97U).
Total cascade	769 (conservative) — 880 (expansive)	

Each of the dated uses in the cascade is independently actionable under § 51 if it falls within the post-7/21/2024 SOL window. Pre-7/21/2024 uses contribute to willfulness, course of conduct, and damages context.

The cascade is foundational, not supplementary: the 12 face-page elections are how the matter is publicly visible, but the practice of “using Litman’s name” was operationally manifested in **769 to 880 separate documents, emails, and correspondences** anchored to those same 12 dockets.

Pre-SOL course of conduct — the 4-patent Lafave-signed pattern tail (willfulness pairing)

Per `output/PTOL85_LAFAVE_FINDINGS.md`, the 16-form Lafave-signed PTOL-85B pattern that produced the 12 patents above also produced **4 additional patents that issued before the §51 SOL cutoff of 7/21/2024**. These four are not standalone liability under CPLR 215(3) but are heavily probative of (i) commercial value of name, (ii) Defendant’s knowledge that Plaintiff’s name was being used, (iii) habit/course of conduct under *Halloran v. Va. Chems.*, 41 N.Y.2d 386 (1977), and (iv) damages-calculation context for the 12 within-SOL uses.

Patent	Application	Docket	Grant	Assignee	IFW Docs	Martha Emails (KFU)	Pre-SOL Cascade
11,881,807	18/215,352	33110.68U	2024-01-23	KFU	53	14	68
11,932,607	18/384,685	33135.26U	2024-03-19	KFU	43	13	57
11,976,365	18/122,396	33101.73U	2024-05-07	KFU	78	25	104
11,980,937	18/392,663	33150.15U	2024-05-14	KFU	47	14	62
TOTAL					221	66	291

Combined pre-SOL + post-SOL cascade total (post-SOL liability + pre-SOL willfulness):

Window	Face	IFW	Per-docket emails	Total
Post-SOL (Exhibit A — 12 patents, actionable)	12	660	97 — 208	769 — 880
Pre-SOL Lafave tail (4 patents, willfulness only)	4	221	66	291
Combined	16	881	163 — 274	1,060 — 1,171

The 16-form Lafave-signed PTOL-85B pattern anchored a **1,060 to 1,171-use cascade** of separately-dated Litman-name uses. The post-SOL slice (769-880) is independently actionable under CPLR 215(3); the pre-SOL slice (266) supports willfulness, knowledge, and damages context.

Per-element § 51 mapping (each patent in this set satisfies all four)

Element	Source
(1) “Use of name”	Patent face page Line 74 (Attorney, Agent, or Firm) lists “Nath, Goldberg & Meyer; Richard C. Litman”
(2) “Within this state”	Defendant conducted business with NY-based clients, mailed correspondence to NY, and the patents were published nationally including NY
(3) “For advertising purposes” / “for the purposes of trade”	Patent prosecution is a paid commercial legal service; assignees are paying clients
(4) “Without written consent”	No written consent has been produced or alleged; the affirmative-defense burden lies with Defendant

The “knowingly” prong of the punitive enhancement is established by the deliberate per-patent election (16-form Lafave-signed PTOL-85B pattern + 449 Goldberg elections + 1 Lafave self-substitution).

Exhibit Index

Exhibit	Description	Pages
A-Cover	This memo	1–4
A-Smoking-Gun	Three PTOL-85B forms side-by-side: same signer (Lafave), three Box 2 names (Litman 5/28/2024, Goldberg 6/12/2024, Lafave 9/25/2024)	5–7
A-1 through A-12	Patent face pages (1 per patent) with the AOR line on Line 74	8–19
A-1B through A-12B	Paired PTOL-85B (Lafave-signed, “Richard C. Litman” in Box 2) for each patent	20–31
A-Lafave	The Lafave anomaly: face page + PTOL-85B + POA for US 12,127,901 (the pattern-end specimen)	32–34
B (separate)	Capability roll-up: 449 Goldberg-AOR patents in the same SOL window (count, monthly trend, assignee distribution)	(separate file)

Companion CPLR 3123 Notice to Admit

Served separately. Contains 48 per-patent admissions (4 × 12) and 8 universe admissions tied to the 449/12/1 split.

Reproducibility

- Live USPTO ODP API query 2026-04-25 with X-API-Key authentication
- Endpoint: `https://api.uspto.gov/api/v1/patent/applications/search`
- Query body: `{"q": "applicationMetaData.customerNumber:37833 AND applicationMetaData.grantDate:>=2024-07-21"}`
- Output CSV: `output/patent_count_refresh/ngm_cn37833_grants_classified.csv` (463 rows)
- All face-page PDFs and PTOL-85B PDFs in `output/patent_count_refresh/face_pages/` and `.../ptol85b_pdfs/`
- Complete deep-dive findings: `output/patent_count_refresh/findings/POST_SOL_AOR_DEEP_DIVE_2026-04-25.md`

Exhibit A — Smoking Gun

Three PTOL-85B Forms — Same Signer, Three Different Names

James Lafave (Reg. 71013) signed all three

5/28/2024 → "Richard C. Litman"

6/12/2024 → "Joshua B. Goldberg"

9/25/2024 → "James Lafave"

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

37833 7590 05/21/2024
Richard C. Litman
Nath, Goldberg & Meyer
112 S. West Street
Alexandria, VA 22314

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

Form with fields for (Typed or printed name), (Signature), and (Date).

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

18/612,504 03/21/2024 AYMAN M. ATTA 33056.80A 7042
TITLE OF INVENTION: IMIDAZOLIUM IONIC LIQUIDS MADE USING CARDANOL EXTRACTED FROM CASHEW NUTSHELL OIL TO ENHANCE CRUDE OIL RECOVERY IN OILFIELDS

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE

Table with 3 columns: EXAMINER, ART UNIT, CLASS-SUBCLASS

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
2. For printing on the patent front page, list (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)
PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: KING SAUD UNIVERSITY
(B) RESIDENCE: (CITY and STATE OR COUNTRY) RIYADH, SAUDI ARABIA

Please check the appropriate assignee category or categories (will not be printed on the patent): [] Individual [X] Corporation or other private group entity [] Government

4a. Fees submitted: [X] Issue Fee [] Publication Fee (if required)
4b. Method of Payment: (Please first reapply any previously paid fee shown above)
[X] Electronic Payment via the USPTO patent electronic filing system [] Enclosed check [] Non-electronic payment by credit card (Attach form PTO-2038)
[X] The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 14-0112

5. Change in Entity Status (from status indicated above)
[] Applicant certifying micro entity status. See 37 CFR 1.29
[] Applicant asserting small entity status. See 37 CFR 1.27
[] Applicant changing to regular undiscounted fee status.
NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /James Lafave/ Date 2024-05-28
Typed or printed name James Lafave Registration No. 71013

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.

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37833 7590 06/11/2024
Richard C. Litman
Nath, Goldberg & Meyer
112 S. West Street
Alexandria, VA 22314

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

18/624,045 04/01/2024 Mai Mostafa Khalaf ALI 33185.83A 9455
TITLE OF INVENTION: (2E)-4-[(4-CHLOROPHENYL)AMINO]-N-PHENYL-2-(PHENYLIMINO)-1,3,5-DIOXAZEPINE-7-CARBOXAMIDE AS AN ECO-FRIENDLY INSECTICIDAL AGENT AGAINST SPODOPTERA LITTORALIS (BOISD.)

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE

Table with 3 columns: EXAMINER, ART UNIT, CLASS-SUBCLASS

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.
"Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
1 Nath, Goldberg & Meyer
2 Joshua B. Goldberg
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)
PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE KING FAISAL UNIVERSITY
(B) RESIDENCE: (CITY and STATE OR COUNTRY) AL-AHSA, SAUDI ARABIA
Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

4a. Fees submitted: Issue Fee Publication Fee (if required)
4b. Method of Payment: (Please first reapply any previously paid fee shown above)
Electronic Payment via the USPTO patent electronic filing system Enclosed check Non-electronic payment by credit card (Attach form PTO-2038)
The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 14-0112

5. Change in Entity Status (from status indicated above)
Applicant certifying micro entity status. See 37 CFR 1.29
Applicant asserting small entity status. See 37 CFR 1.27
Applicant changing to regular undiscounted fee status.
NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
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NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.
Authorized Signature /James Lafave/ Date 2024-06-12
Typed or printed name James Lafave Registration No. 71013

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37833 7590 09/13/2024
Richard C. Litman
Nath, Goldberg & Meyer
 112 S. West Street
 Alexandria, VA 22314

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(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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18/628,953 04/08/2024 AMANI ABDULAZIZ MIRDAD 33092.11U 3756

TITLE OF INVENTION: BLADE FOR INTERPROXIMAL CROWN LENGTHENING

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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nonprovisional SMALL \$480 \$0.00 \$0.00 \$480 12/13/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
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PATEL, YOGESH P 3772 433-144000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

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- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

- 1 Nath, Goldberg & Meyer
- 2 James Lafave
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

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(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)
KING SAUD UNIVERSITY **RIYADH, SAUDI ARABIA**

Please check the appropriate assignee category or categories (will not be printed on the patent) : Individual Corporation or other private group entity Government

4a. Fees submitted: Issue Fee Publication Fee (if required)

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- Applicant certifying micro entity status. See 37 CFR 1.29
- Applicant asserting small entity status. See 37 CFR 1.27
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NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /James Lafave/ Date 2024-09-25

Typed or printed name James Lafave Registration No. 71013

Exhibit A-1

U.S. Patent No. 12043608

Application No. 18242465

Face page — Attorney/Agent/Firm: Nath, Goldberg & Meyer; Richard
C. Litman

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.



US012043608B1

(12) **United States Patent**
Khalaf Ali et al.

(10) **Patent No.:** **US 12,043,608 B1**
(45) **Date of Patent:** **Jul. 23, 2024**

(54) **2-(BENZO[B]THIOPHEN-3-YL)-1-BUTYL-4,5-DIPHENYL-1H-IMIDAZOLE AS AN ANTI-INFLAMMATORY AND ANTI-MICROBIAL COMPOUND**

(71) Applicant: **KING FAISAL UNIVERSITY, Al-Ahsa (SA)**

(72) Inventors: **Mai Mostafa Khalaf Ali, Al-Ahsa (SA); Hany Mohamed Abd El-Lateef Ahmed, Al-Ahsa (SA); Antar Ahmed Abdelhamid Ahmed, Al-Baha (SA); Adel A. Marzouk, Al-Ahsa (SA)**

(73) Assignee: **KING FAISAL UNIVERSITY, Al-Ahsa (SA)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **18/242,465**

(22) Filed: **Sep. 5, 2023**

(51) **Int. Cl.**
C07D 401/04 (2006.01)
A61P 31/04 (2006.01)
A61P 31/10 (2006.01)

(52) **U.S. Cl.**
CPC **C07D 401/04** (2013.01); **A61P 31/04** (2018.01); **A61P 31/10** (2018.01)

(58) **Field of Classification Search**
None
See application file for complete search history.

(56) **References Cited**

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Marzouk et al., "New Method for Synthesis of Multi-Substituted Imidazoles", Journal of Heterocyclic Chemistry, vol. 55, Issue 7, Jul. 2018, pp. 1775-1782.

* cited by examiner

Primary Examiner — Nannette Holloman

(74) *Attorney, Agent, or Firm* — Nath, Goldberg & Meyer; Richard C. Litman

(57) **ABSTRACT**

A compound 2-(Benzo[b]thiophen-3-yl)-1-butyl-4,5-diphenyl-1H-imidazole compound, its synthesis, and its use as an anti-microbial and anti-inflammatory agent.

4 Claims, 2 Drawing Sheets

Exhibit A-1-B

PTOL-85 Part B — U.S. Patent No. 12043608

Application No. 18242465

Signed by James Lafave (Reg. 71013)

Box 2 of PTOL-85B: "Richard C. Litman"

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.

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Form with fields for (Typed or printed name), (Signature), and (Date).

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

18/242,465 09/05/2023 MAI MOSTAFA KHALAF ALI 33120.91U 9012
TITLE OF INVENTION: 2-(BENZO[B]THIOPHEN-3-YL)-1-BUTYL-4,5-DIPHENYL-1H-IMIDAZOLE AS AN ANTI-INFLAMMATORY AND ANTI-MICROBIAL COMPOUND

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE

Table with 3 columns: EXAMINER, ART UNIT, CLASS-SUBCLASS

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
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(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
1 Nath, Goldberg & Meyer
2 Richard C. Litman
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PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: KING FAISAL UNIVERSITY
(B) RESIDENCE: (CITY and STATE OR COUNTRY): AL-AHSA, SAUDI ARABIA

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

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Authorized Signature /James Lafave/ Date 2024-04-25
Typed or printed name James Lafave Registration No. 71013

Exhibit A-2

U.S. Patent No. 12043609

Application No. 18379906

Face page — Attorney/Agent/Firm: Nath, Goldberg & Meyer; Richard
C. Litman

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.



US012043609B1

(12) **United States Patent**
Ahmed et al.

(10) **Patent No.:** **US 12,043,609 B1**
(45) **Date of Patent:** **Jul. 23, 2024**

(54) **6'(4-METHOXYPHENYL)-2'-ALKOXY-3,4'-BIPYRIDINE-3'-CARBONITRILE AS ANTIMICROBIAL COMPOUNDS**

(71) Applicant: **KING FAISAL UNIVERSITY, Al-Ahsa (SA)**

(72) Inventors: **Hany Mohamed Abd El-Lateef Ahmed, Al-Ahsa (SA); Mai Mostafa Khalaf Ali, Al-Ahsa (SA); Antar Ahmed Abdelhamid Ahmed, Sohag (EG); Amer A. Amer, Sohag (EG)**

(73) Assignee: **KING FAISAL UNIVERSITY, Al-Ahsa (SA)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **18/379,906**

(22) Filed: **Oct. 13, 2023**

(51) **Int. Cl.**
C07D 401/04 (2006.01)
A61P 31/04 (2006.01)
A61P 31/10 (2006.01)

(52) **U.S. Cl.**
CPC **C07D 401/04** (2013.01); **A61P 31/04** (2018.01); **A61P 31/10** (2018.01)

(58) **Field of Classification Search**
CPC **C07D 401/04**
See application file for complete search history.

(56) **References Cited**

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* cited by examiner

Primary Examiner — Shobha Kantamneni
(74) *Attorney, Agent, or Firm* — Nath, Goldberg & Meyer; Richard C. Litman

(57) **ABSTRACT**

A 6'-(4-methoxyphenyl)-2'-alkoxy-3,4'-bipyridine-3'-carbonitrile compound, its synthesis, and its use as an antimicrobial agent.

2 Claims, No Drawings

Exhibit A-2-B

PTOL-85 Part B — U.S. Patent No. 12043609

Application No. 18379906

Signed by James Lafave (Reg. 71013)

Box 2 of PTOL-85B: "Richard C. Litman"

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.

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Form with fields for (Typed or printed name), (Signature), and (Date).

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

18/379,906 10/13/2023 Hany Mohamed Abd El-Lateef AHMED 33130.47U 4394
TITLE OF INVENTION: 6-(4-METHOXYPHENYL)-2'-ALKOXY-3,4-BIPYRIDINE-3'-CARBONITRILE AS ANTIMICROBIAL COMPOUNDS

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE.

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1 Nath, Goldberg & Meyer
2 Richard C. Litman
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(B) RESIDENCE: (CITY and STATE OR COUNTRY): AL-AHSA, SAUDI ARABIA
Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

4a. Fees submitted: Issue Fee Publication Fee (if required)
4b. Method of Payment: (Please first reapply any previously paid fee shown above)
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The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 14-0112

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Applicant asserting small entity status. See 37 CFR 1.27
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NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature: James Lafave Date: 2024-04-26
Typed or printed name: James Lafave Registration No.: 71013

Exhibit A-3

U.S. Patent No. 12049459

Application No. 18241394

Face page — Attorney/Agent/Firm: Nath, Goldberg & Meyer; Richard
C. Litman

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.



US012049459B1

(12) **United States Patent**
Ahmed et al.

(10) **Patent No.:** US 12,049,459 B1
(45) **Date of Patent:** *Jul. 30, 2024

(54) **3-(4,5-DIPHENYL-2-(PYRIDIN-3-YL)-1H-IMIDAZOL-1-YL)-N,N-DIMETHYLPROPAN-1-AMINE AS AN ANTICANCER COMPOUND**

(71) Applicant: **KING FAISAL UNIVERSITY,**
Al-Ahsa (SA)

(72) Inventors: **Hany Mohamed Abd El-Lateef Ahmed,** Al-Ahsa (SA); **Mai Mostafa Khalaf Ali,** Al-Ahsa (SA); **Antar Ahmed Abdelhamid Ahmed,** Al-Baha (EG); **Nawf Esanani,** Al-Ahsa (SA); **Adel A. Marzouk,** Al Azhar (EG)

(73) Assignee: **KING FAISAL UNIVERSITY,**
Al-Ahsa (SA)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 6 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **18/241,394**

(22) Filed: **Sep. 1, 2023**

(51) **Int. Cl.**
A61K 31/4439 (2006.01)
A61K 31/4178 (2006.01)
A61P 35/00 (2006.01)
C07D 401/04 (2006.01)

(52) **U.S. Cl.**
CPC **C07D 401/04** (2013.01); **A61K 31/4439** (2013.01); **A61P 35/00** (2018.01); **A61K 31/4178** (2013.01)

(58) **Field of Classification Search**
CPC A61P 31/04; A61P 31/10; C07D 401/04;
A61K 31/4178; A61K 31/4439
See application file for complete search history.

(56) **References Cited**

PUBLICATIONS

Copending U.S. Appl. No. 18/237,543, filed Aug. 24, 2023. (Year: 2023).*

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Marzouk, et al., "Morpholinium Hydrogen Sulfate (MHS) Ionic Liquid as an Efficient Catalyst for the Synthesis of Bioactive Multi-Substituted Imidazoles (MSI) Under Solvent-Free Conditions", Zeitschrift für Naturforschung B, vol. 72 Issue 1, 2016.

Albayati, et al., "Piperidinium Hydrogen Sulfate (PHS) as an Efficient Ionic Liquid Catalyst for the Synthesis of Imidazole Derivative Under Solvent-Free Condition", Journal of Heterocyclic Chemistry, vol. 56, Issue 5, May 2019, pp. 1514-1519.

Shivani, et al., "One Pot Synthesis of Tri and Tetra Substituted Imidazole Derivatives", IJPBS | vol. 3| Issue 4 |Oct.-Dec. 2013|270-277.

* cited by examiner

Primary Examiner — Craig D Ricci

Assistant Examiner — Janet L Coppins

(74) *Attorney, Agent, or Firm* — Nath, Goldberg & Meyer; Richard C. Litman

(57) **ABSTRACT**

A compound 3-(4,5-Diphenyl-2-(pyridin-3-yl)-1H-imidazol-1-yl)-N,N-dimethylpropan-1-amine, its synthesis, and its use as an anticancer agent.

4 Claims, No Drawings

Exhibit A-3-B

PTOL-85 Part B — U.S. Patent No. 12049459

Application No. 18241394

Signed by James Lafave (Reg. 71013)

Box 2 of PTOL-85B: "Richard C. Litman"

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.

Exhibit A-4

U.S. Patent No. 12054460

Application No. 18414442

Face page — Attorney/Agent/Firm: Nath, Goldberg & Meyer; Richard
C. Litman

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NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.



US012054460B1

(12) **United States Patent**
Ahmed et al.

(10) **Patent No.: US 12,054,460 B1**
(45) **Date of Patent: Aug. 6, 2024**

(54) **9-(5-BROMO-2-HYDROXYPHENYL)-10-[3-(DIMETHYLAMINO)PROPYL]-3,4,6,7,9,10-HEXAHYDROACRIDINE-1,8(2H,5H)-DIONE AS AN ANTIMICROBIAL COMPOUND**

(71) Applicant: **KING FAISAL UNIVERSITY, Al-Ahsa (SA)**

(72) Inventors: **Hany Mohamed Abd El-Lateef Ahmed, Al-Ahsa (SA); Mai Mostafa Khalaf Ali, Al-Ahsa (SA); Antar Ahmed Abdelhamid Ahmed, Sohag (EG)**

(73) Assignee: **KING FAISAL UNIVERSITY, Al-Ahsa (SA)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **18/414,442**

(22) Filed: **Jan. 16, 2024**

Related U.S. Application Data

(62) Division of application No. 18/382,887, filed on Oct. 23, 2023, now Pat. No. 11,976,041.

(51) **Int. Cl.**
C07D 219/06 (2006.01)
A61P 31/04 (2006.01)
A61P 31/10 (2006.01)

(52) **U.S. Cl.**
CPC **C07D 219/06** (2013.01); **A61P 31/04** (2018.01); **A61P 31/10** (2018.01)

(58) **Field of Classification Search**
None
See application file for complete search history.

(56) **References Cited**

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“9-(5-Bromo-2-Hydroxyphenyl)-2,3,4,5,6,7,9,10-Octahydroacridine-1,8-Dione”.

“9-(5-Bromo-2-Hydroxyphenyl)-3,3,6,6-Tetramethyl-3,4,6,7,9,10-Hexahydroacridine-1,8(2h,5h)-Dione”.

“9-(5-Bromo-2-Hydroxyphenyl)-10-(2-Hydroxypropyl)-3,3,6,6-Tetramethyl-1,2,3,4,5,6,7,8,9,10-Decahydroacridine-1,8-Dione”.

“9-(5-Bromo-2-Hydroxyphenyl)-3,3,6,6,10-Pentamethyl-3,4,6,7,9,10-Hexahydroacridine-1,8(2h,5h)-Dione”.

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Primary Examiner — David J Blanchard

Assistant Examiner — Sarah J Chickos

(74) *Attorney, Agent, or Firm* — Nath, Goldberg & Meyer; Richard C. Litman

(57) **ABSTRACT**

A 9-(5-bromo-2-hydroxyphenyl)-10-[3-(dimethylamino)propyl]-3,4,6,7,9,10-hexahydroacridine-1,8(2H,5H)-dione compound, its synthesis, and its use as an antimicrobial agent.

6 Claims, No Drawings

Exhibit A-4-B

PTOL-85 Part B — U.S. Patent No. 12054460

Application No. 18414442

Signed by James Lafave (Reg. 71013)

Box 2 of PTOL-85B: "Richard C. Litman"

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.

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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

18/414,442 01/16/2024 HANY MOHAMED ABD EL-LATEEF AHMED 33170.94A 6459
TITLE OF INVENTION: 9-(5-BROMO-2-HYDROXYPHENYL)-10-[3-(DIMETHYLAMINO)PROPYL]-3,4,6,7,9,10-HEXAHYDROACRIDINE-1,8(2H,5H)-DIONE AS AN ANTIMICROBIAL COMPOUND

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE

Table with 3 columns: EXAMINER, ART UNIT, CLASS-SUBCLASS

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1 Nath, Goldberg & Meyer
2 Richard C. Litman
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(A) NAME OF ASSIGNEE KING FAISAL UNIVERSITY (B) RESIDENCE: (CITY and STATE OR COUNTRY) AL-AHSA, SAUDI ARABIA
Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

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Applicant certifying micro entity status. See 37 CFR 1.29
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Authorized Signature /James Lafave/ Date 2024-06-03
Typed or printed name James Lafave Registration No. 71013

Exhibit A-5

U.S. Patent No. 12054464

Application No. 18428327

Face page — Attorney/Agent/Firm: Nath, Goldberg & Meyer; Richard
C. Litman

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.



US012054464B1

(12) **United States Patent**
Ali et al.

(10) **Patent No.:** **US 12,054,464 B1**
(45) **Date of Patent:** **Aug. 6, 2024**

(54) **METHYL 4-((5-(3-FLUOROPHENYL)-4-PHENYL-4H-1,2,4-TRIAZOL-3-YLTHIO)METHYL)BENZOATE AS AN ANTIMICROBIAL COMPOUND**

(71) Applicant: **KING FAISAL UNIVERSITY, Al-Ahsa (SA)**

(72) Inventors: **Mai Mostafa Khalaf Ali, Al-Ahsa (SA); Hany Mohamed Abd El-Lateef Ahmed, Al-Ahsa (SA); Antar Ahmed Abdelhamid Ahmed, Sohag (EG); Amer A. Amer, Sohag (EG)**

(73) Assignee: **KING FAISAL UNIVERSITY, Al-Ahsa (SA)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **18/428,327**

(22) Filed: **Jan. 31, 2024**

Related U.S. Application Data

(62) Division of application No. 18/382,959, filed on Oct. 23, 2023.

(51) **Int. Cl.**
C07D 249/12 (2006.01)
A61P 31/04 (2006.01)
A61P 31/10 (2006.01)

(52) **U.S. Cl.**
CPC **C07D 249/12** (2013.01); **A61P 31/04** (2018.01); **A61P 31/10** (2018.01)

(58) **Field of Classification Search**
CPC **C07D 249/12**
See application file for complete search history.

(56) **References Cited**

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Primary Examiner — Golam M Shameem

(74) *Attorney, Agent, or Firm* — Nath, Goldberg & Meyer; Richard C. Litman

(57) **ABSTRACT**

An methyl 4-((5-(3-fluorophenyl)-4-phenyl-4H-1,2,4-triazol-3-ylthio)methyl)benzoate compound, its synthesis, and its use as an antimicrobial agent.

6 Claims, 1 Drawing Sheet

Exhibit A-5-B

PTOL-85 Part B — U.S. Patent No. 12054464

Application No. 18428327

Signed by James Lafave (Reg. 71013)

Box 2 of PTOL-85B: "Richard C. Litman"

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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18/428,327 01/31/2024 Mai Mostafa Khalaf ALI 33175.68A 9076

TITLE OF INVENTION: METHYL 4-((5-(3-FLUOROPHENYL)-4-PHENYL-4H-1,2,4-TRIAZOL-3-YLTHIO)METHYL)BENZOATE AS AN ANTIMICROBIAL COMPOUND

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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nonprovisional SMALL \$480 \$0.00 \$0.00 \$480 09/03/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
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SHAMEEM, GOLAM M 1621 514-384000

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Typed or printed name James Lafave Registration No. 71013

Exhibit A-6

U.S. Patent No. 12062780

Application No. 18413239

Face page — Attorney/Agent/Firm: Nath, Goldberg & Meyer; Richard
C. Litman

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.



US012062780B1

(12) **United States Patent**
Alshoaibi et al.

(10) **Patent No.:** **US 12,062,780 B1**
(45) **Date of Patent:** **Aug. 13, 2024**

(54) **HYDROVOLTAIC POWER GENERATION DEVICES UTILIZING CARBON SPHERE-COATED NICKEL FOAM/PET SUBSTRATE**

(71) Applicant: **KING FAISAL UNIVERSITY,**
Al-Ahsa (SA)

(72) Inventors: **Adil Alshoaibi,** Al-Ahsa (SA); **Majid Khan,** Mardan (PK)

(73) Assignee: **KING FAISAL UNIVERSITY,**
Al-Ahsa (SA)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 17 days.

(21) Appl. No.: **18/413,239**

(22) Filed: **Jan. 16, 2024**

(51) **Int. Cl.**

H01M 4/36 (2006.01)
H01M 4/04 (2006.01)
H01M 4/583 (2010.01)
H01M 4/66 (2006.01)
H01M 4/80 (2006.01)
H01M 14/00 (2006.01)

(52) **U.S. Cl.**

CPC **H01M 4/364** (2013.01); **H01M 4/0404** (2013.01); **H01M 4/0471** (2013.01); **H01M 4/583** (2013.01); **H01M 4/661** (2013.01); **H01M 4/667** (2013.01); **H01M 4/808** (2013.01); **H01M 14/00** (2013.01)

(58) **Field of Classification Search**

None
See application file for complete search history.

(56) **References Cited**

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429/245

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* cited by examiner

Primary Examiner — Scott J. Chmielecki

(74) *Attorney, Agent, or Firm* — Nath, Goldberg & Meyer; Richard C. Litman

(57) **ABSTRACT**

A process for preparing carbon spheres coated on a nickel (Ni) foam/polyethylene terephthalate (PET) substrate, as well as the use of the obtained product in the field of hydrovoltaic energy generation.

16 Claims, No Drawings

Exhibit A-6-B

PTOL-85 Part B — U.S. Patent No. 12062780

Application No. 18413239

Signed by James Lafave (Reg. 71013)

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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18/413,239 01/16/2024 ADIL ALSHOAIBI 33160.59U 2913

TITLE OF INVENTION: HYDROVOLTAIC POWER GENERATION DEVICES UTILIZING CARBON SPHERE-COATED NICKEL FOAM/PET SUBSTRATE

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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nonprovisional SMALL \$480 \$0.00 \$0.00 \$480 06/26/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
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CHMIELECKI, SCOTT J 1729 429-231800

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- 1 Nath, Goldberg & Meyer
 2 Richard C. Litman
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KING FAISAL UNIVERSITY

AL-AHSA, SAUDI ARABIA

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Authorized Signature /James Lafave/

Date 2024-03-27

Typed or printed name James Lafave

Registration No. 71013

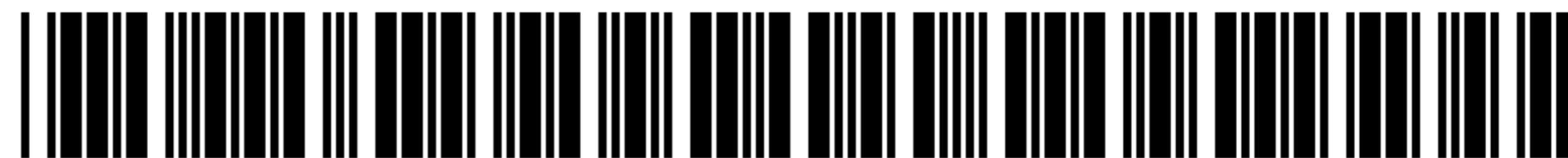
Exhibit A-7

U.S. Patent No. 12065424

Application No. 18425923

Face page — Attorney/Agent/Firm: Nath, Goldberg & Meyer; Richard
C. Litman

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.



US012065424B1

(12) **United States Patent**
Ahmed et al.

(10) **Patent No.:** **US 12,065,424 B1**
(45) **Date of Patent:** **Aug. 20, 2024**

(54) **6'(4-METHOXYPHENYL)-2'-ALKOXY-3,4'-BIPYRIDINE-3'-CARBONITRILE AS ANTIMICROBIAL COMPOUNDS**

(71) Applicant: **KING FAISAL UNIVERSITY, Al-Ahsa (SA)**

(72) Inventors: **Hany Mohamed Abd El-Lateef Ahmed, Al-Ahsa (SA); Mai Mostafa Khalaf Ali, Al-Ahsa (SA); Antar Ahmed Abdelhamid Ahmed, Sohag (EG); Amer A. Amer, Sohag (EG)**

(73) Assignee: **KING FAISAL UNIVERSITY, Al-Ahsa (SA)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **18/425,923**

(22) Filed: **Jan. 29, 2024**

Related U.S. Application Data

(62) Division of application No. 18/379,906, filed on Oct. 13, 2023.

(51) **Int. Cl.**
C07D 401/04 (2006.01)
A61P 31/04 (2006.01)
A61P 31/10 (2006.01)

(52) **U.S. Cl.**
CPC **C07D 401/04** (2013.01); **A61P 31/04** (2018.01); **A61P 31/10** (2018.01)

(58) **Field of Classification Search**
CPC **A61P 31/04; A61P 31/10**
See application file for complete search history.

(56) **References Cited**

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Primary Examiner — Shobha Kantamneni

(74) *Attorney, Agent, or Firm* — Nath, Goldberg & Meyer; Richard C. Litman

(57) **ABSTRACT**

A 6'-(4-methoxyphenyl)-2'-alkoxy-3,4'-bipyridine-3'-carbonitrile compound, its synthesis, and its use as an antimicrobial agent.

3 Claims, No Drawings

Exhibit A-7-B

PTOL-85 Part B — U.S. Patent No. 12065424

Application No. 18425923

Signed by James Lafave (Reg. 71013)

Box 2 of PTOL-85B: "Richard C. Litman"

Litman v. Goldberg · Index No. 524343/2025
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Nath, Goldberg & Meyer
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(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

18/425,923 01/29/2024 Hany Mohamed Abd El-Lateef AHMED 33175.60A 6760

TITLE OF INVENTION: 6-(4-METHOXYPHENYL)-2'-ALKOXY-3,4-BIPYRIDINE-3'-CARBONITRILE AS ANTIMICROBIAL COMPOUNDS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0.00	\$0.00	\$480	08/29/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
KANTAMNENI, SHOBHA	1627	514-334000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.
- "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

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- 1 Nath, Goldberg & Meyer
 2 Richard C. Litman
 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

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(A) NAME OF ASSIGNEE
KING FAISAL UNIVERSITY

(B) RESIDENCE: (CITY and STATE OR COUNTRY)
AL-AHSA, SAUDI ARABIA

Please check the appropriate assignee category or categories (will not be printed on the patent) : Individual Corporation or other private group entity Government

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- Applicant asserting small entity status. See 37 CFR 1.27
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NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

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NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /James Lafave/

Date 2024-05-30

Typed or printed name James Lafave

Registration No. 71013

Exhibit A-8

U.S. Patent No. 12071437

Application No. 18411323

Face page — Attorney/Agent/Firm: Nath, Goldberg & Meyer; Richard
C. Litman

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.



US012071437B1

(12) **United States Patent**
Tratrat et al.

(10) **Patent No.: US 12,071,437 B1**
 (45) **Date of Patent: Aug. 27, 2024**

(54) **PYRAZOLO[1,5-a]PYRIDO[4,3-e]PYRIMIDINE-2-CARBOXYLIC ACIDS AS CK2 INHIBITORS**

(71) Applicant: **KING FAISAL UNIVERSITY, Al-Ahsa (SA)**

(72) Inventors: **Christophe Tratrat, Al-Ahsa (SA); Michelyne Haroun, Al-Ahsa (SA)**

(73) Assignee: **KING FAISAL UNIVERSITY, Al-Ahsa (SA)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **18/411,323**

(22) Filed: **Jan. 12, 2024**

(51) **Int. Cl.**
C07D 471/14 (2006.01)
A61K 31/519 (2006.01)
A61P 35/00 (2006.01)

(52) **U.S. Cl.**
 CPC **C07D 471/14** (2013.01); **A61K 31/519** (2013.01); **A61P 35/00** (2018.01)

(58) **Field of Classification Search**
 CPC **C07D 471/14; A61K 31/519**
 See application file for complete search history.

(56) **References Cited**

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Primary Examiner — Andrew D Kosar
Assistant Examiner — John D Mcanany

(74) *Attorney, Agent, or Firm* — Nath, Goldberg & Meyer; Richard C. Litman

(57) **ABSTRACT**

Novel pyrazolo[1,5-a]pyrido[4,3-e]pyrimidine-2-carboxylic acid compounds, a method of synthesizing said compounds, a pharmaceutical composition comprising said compounds and a suitable carrier, and a method of using the compounds. The pyrazolo[1,5-a]pyrido[4,3-e]pyrimidine-2-carboxylic acid compounds, identified as CK2 inhibitors, are useful as anticancer and/or antitumor agents, and as agents for treating other kinase-associated conditions including inflammation, pain, and certain immunological disorders, and other types of diseases such as diabetes, viral infection, neurodegenerative diseases.

20 Claims, No Drawings

Exhibit A-8-B

PTOL-85 Part B — U.S. Patent No. 12071437

Application No. 18411323

Signed by James Lafave (Reg. 71013)

Box 2 of PTOL-85B: "Richard C. Litman"

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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18/411,323 01/12/2024 CHRISTOPHE TRATRAT 33150.41U 9162

TITLE OF INVENTION: PYRAZOLO[1,5-a]PYRIDO[4,3-e]PYRIMIDINE-2-CARBOXYLIC ACIDS AS CK2 INHIBITORS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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nonprovisional SMALL \$480 \$0.00 \$0.00 \$480 08/20/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
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MCANANY, JOHN D 1625 514-267000

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"Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

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1 Nath, Goldberg & Meyer
 2 Richard C. Litman
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(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

KING FAISAL UNIVERSITY

AL-AHSA, SAUDI ARABIA

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

4a. Fees submitted: Issue Fee Publication Fee (if required)

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Applicant asserting small entity status. See 37 CFR 1.27

Applicant changing to regular undiscounted fee status.

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NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /James Lafave/

Date 2024-05-21

Typed or printed name James Lafave

Registration No. 71013

Exhibit A-9

U.S. Patent No. D1046141

Application No. 746671

Face page — Attorney/Agent/Firm: Nath, Goldberg & Meyer; Richard
C. Litman

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.



US0D1046141S

(12) **United States Design Patent** (10) **Patent No.: US D1,046,141 S**
Alsaleh (45) **Date of Patent: ** *Oct. 8, 2024**

(54) **DENTAL TOOL FOR ANCHORING A RUBBER DAM**

(71) Applicant: **KING SAUD UNIVERSITY**, Riyadh (SA)

(72) Inventor: **Lama Saleh Alsaleh**, Riyadh (SA)

(73) Assignee: **KING SAUD UNIVERSITY**, Riyadh (SA)

(*) Notice: This patent is subject to a terminal disclaimer.

(**) Term: **15 Years**

(21) Appl. No.: **29/746,671**

(22) Filed: **Aug. 16, 2020**

(51) **LOC (14) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/176**

(58) **Field of Classification Search**
USPC D24/143, 152, 154, 176-178
CPC A61C 5/00; A61C 5/80; A61C 5/82; A61C 5/85; A61C 5/90
See application file for complete search history.

(56) **References Cited**

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(Continued)

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Primary Examiner — Wan Laymon

(74) *Attorney, Agent, or Firm* — Nath, Goldberg & Meyer; Richard C. Litman

(57) **CLAIM**

The ornamental design for a dental tool for anchoring a rubber dam as shown and described.

DESCRIPTION

FIG. 1 is an environmental, perspective view of a dental tool for anchoring a rubber dam;
FIG. 2 is a top perspective view thereof;
FIG. 3 is a top plan view thereof;
FIG. 4 is a bottom view thereof;
FIG. 5 is a front elevational view thereof;
FIG. 6 is a rear elevational view thereof.
FIG. 7 is a right elevational view thereof.
FIG. 8 is a left elevational view thereof.
FIG. 9 is a reduced bottom perspective view thereof; and,
FIG. 10 is a reduced top perspective view thereof.
The broken lines showing of the gum and teeth in FIG. 1 depict environmental subject matter only and form no part of the claimed design.

1 Claim, 7 Drawing Sheets

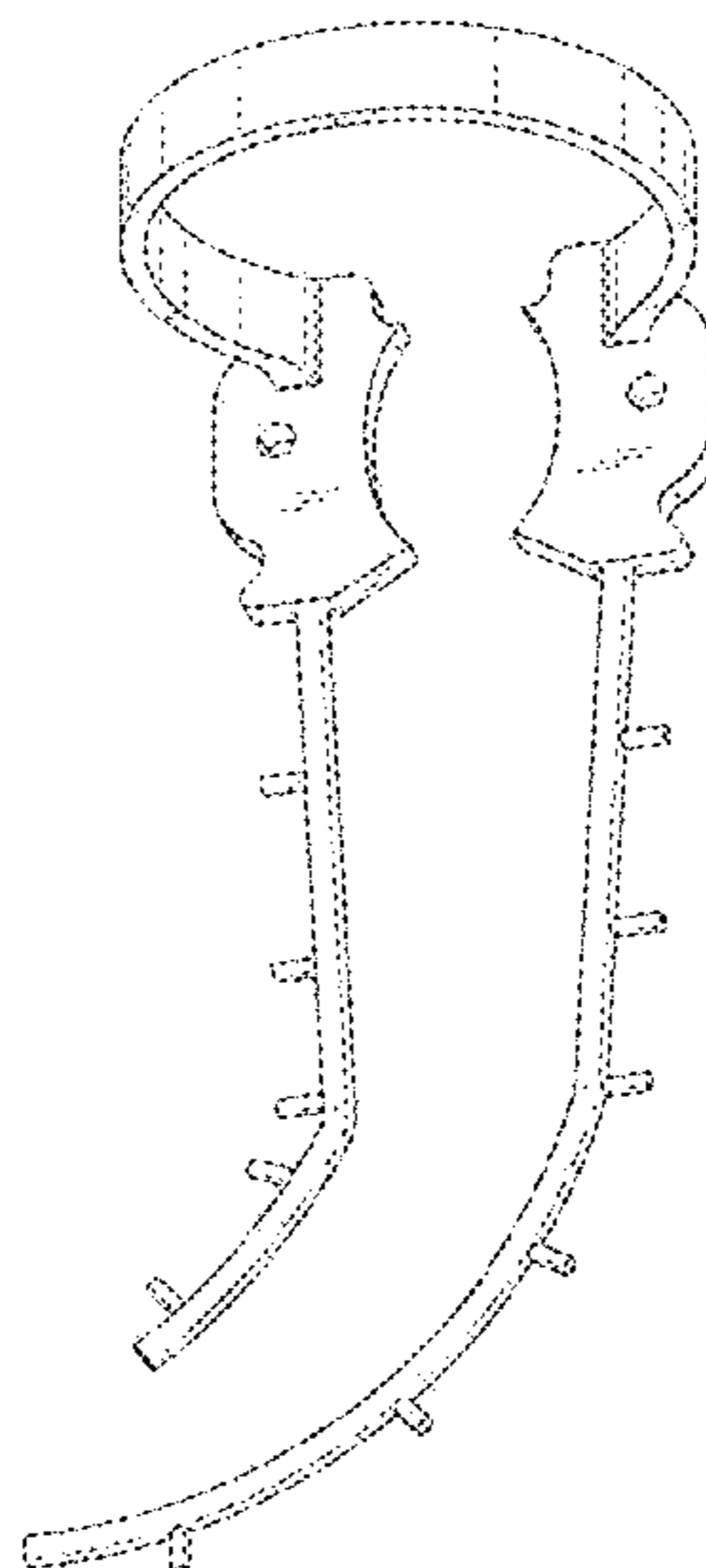


Exhibit A-9-B

PTOL-85 Part B — U.S. Patent No. D1046141

Application No. 746671

Signed by James Lafave (Reg. 71013)

Box 2 of PTOL-85B: "Richard C. Litman"

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.

Exhibit A-10

U.S. Patent No. 12114620

Application No. 18241049

Face page — Attorney/Agent/Firm: Nath, Goldberg & Meyer; Richard
C. Litman

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.



US012114620B1

(12) **United States Patent**
Asem

(10) **Patent No.:** **US 12,114,620 B1**
(45) **Date of Patent:** **Oct. 15, 2024**

(54) **VERTICAL TUBERS PLANTER AND HARVESTER**

(71) Applicant: **KUWAIT INSTITUTE FOR SCIENTIFIC RESEARCH**, Safat (KW)

(72) Inventor: **Samira Omar Asem**, Safat (KW)

(73) Assignee: **KUWAIT INSTITUTE FOR SCIENTIFIC RESEARCH**, Safat (KW)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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2023/0026903	A1*	1/2023	Kendall	A01G 9/247	
2023/0148499	A1*	5/2023	Fujisawa	A01G 9/247	47/62 R

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* cited by examiner

Primary Examiner — Kristen C Hayes

(74) *Attorney, Agent, or Firm* — Nath, Goldberg & Meyer; Richard C. Litman

(21) Appl. No.: **18/241,049**

(22) Filed: **Aug. 31, 2023**

(51) **Int. Cl.**
A01G 9/02 (2018.01)
A01G 9/24 (2006.01)
A01G 22/25 (2018.01)

(52) **U.S. Cl.**
CPC *A01G 9/023* (2013.01); *A01G 9/247* (2013.01); *A01G 9/249* (2019.05); *A01G 22/25* (2018.02)

(58) **Field of Classification Search**
CPC *A01G 9/023*; *A01G 9/022*; *A01G 9/00*; *A01G 9/02*; *A01G 31/00*; *A01G 31/06*
See application file for complete search history.

(56) **References Cited**

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				47/66.7
2013/0212940	A1	8/2013	Blyden	

(57) **ABSTRACT**

A system and method for using indoor vertical farming for cultivating tubers. The method and system include a wheeled framework with tiered platforms, the platforms forming multiple growing spaces for growing portions of a tuber crop and soil where the growing spaces are provided with irrigation and illumination. Each growing space has a paneled wheeled planter tray which rests on a platform and each portion of the tuber crop and soil can be extracted from each paneled wheeled planter tray by a lifting action to fall into a mesh covered container, used to separate the soil from the tuber crop.

6 Claims, 3 Drawing Sheets

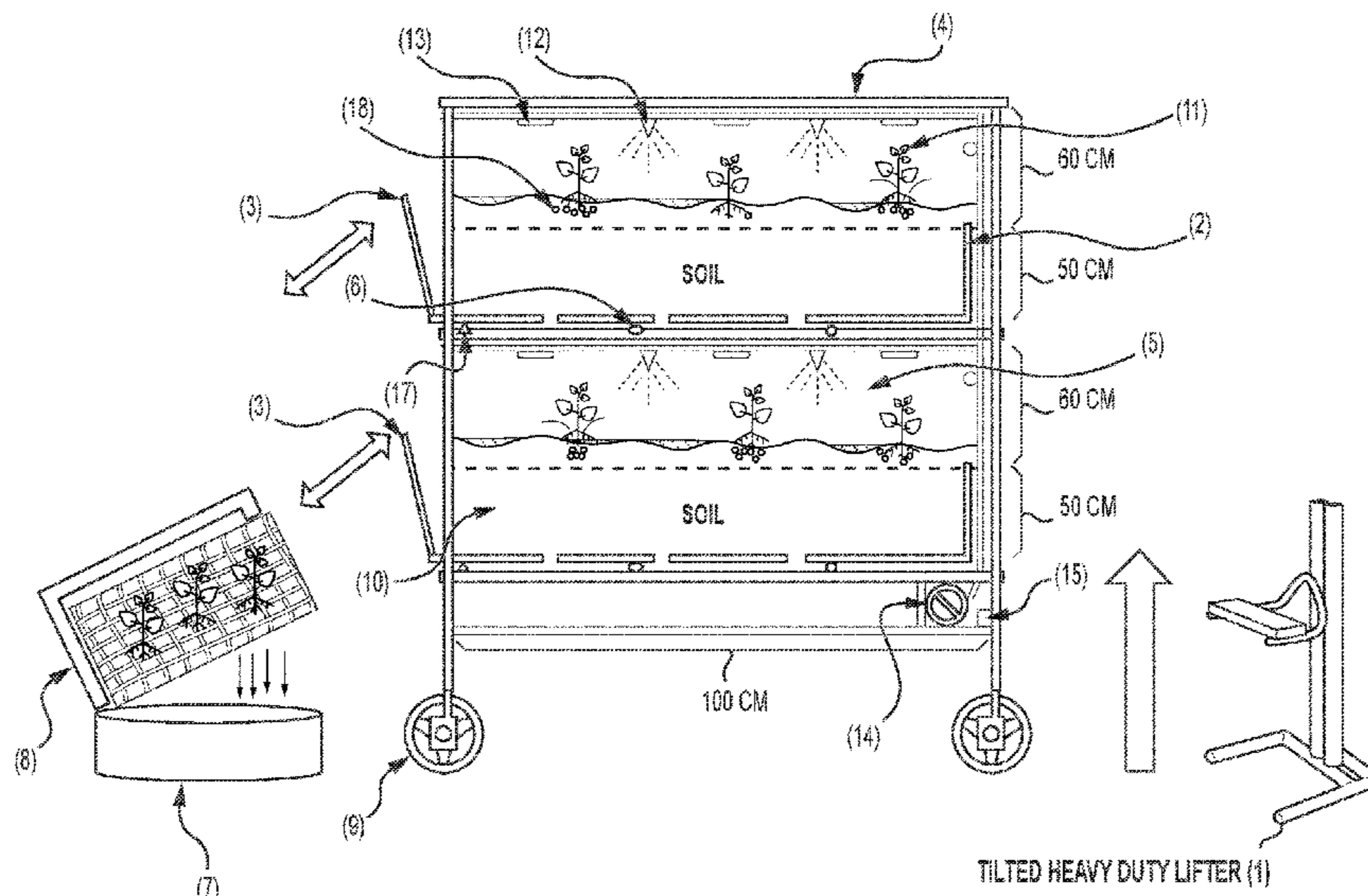


Exhibit A-10-B

PTOL-85 Part B — U.S. Patent No. 12114620

Application No. 18241049

Signed by James Lafave (Reg. 71013)

Box 2 of PTOL-85B: "Richard C. Litman"

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.

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Nath, Goldberg & Meyer
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TITLE OF INVENTION: VERTICAL TUBERS PLANTER AND HARVESTER

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE.

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- 1 Nath, Goldberg & Meyer
2 Richard C. Litman
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"Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: KUWAIT INSTITUTE FOR SCIENTIFIC RESEARCH
(B) RESIDENCE: (CITY and STATE OR COUNTRY): SAFAT, KUWAIT

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual, Corporation or other private group entity, Government

4a. Fees submitted: Issue Fee, Publication Fee (if required)

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Applicant asserting small entity status. See 37 CFR 1.27
Applicant changing to regular undiscounted fee status.

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NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature: James Lafave, Date: 2024-04-17
Typed or printed name: James Lafave, Registration No.: 71013

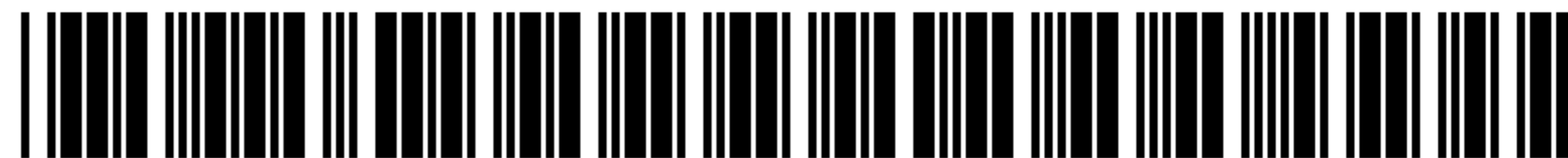
Exhibit A-11

U.S. Patent No. 12116333

Application No. 18511800

Face page — Attorney/Agent/Firm: Nath, Goldberg & Meyer; Richard
C. Litman

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.



US012116333B1

(12) **United States Patent**
Ali et al.

(10) **Patent No.:** **US 12,116,333 B1**
(45) **Date of Patent:** **Oct. 15, 2024**

(54) **3,3'-(HYDRAZINE-1,2-DIYL)BIS(1-(NAPHTHALEN-2-YLOXY)PROPAN-2-OL) AS AN ECOFRIENDLY INSECTICIDAL AGENT AGAINST SPODOPTERA LITTORALIS (BOISD.)**

(71) Applicant: **KING FAISAL UNIVERSITY,**
Al-Ahsa (SA)

(72) Inventors: **Mai Mostafa Khalaf Ali,** Al-Ahsa (SA); **Hany Mohamed Abd El-Lateef Ahmed,** Al-Ahsa (SA); **Antar Ahmed Abdelhamid Ahmed,** Al-Baha (SA); **Mohamed A. Gad,** Giza (EG)

(73) Assignee: **KING FAISAL UNIVERSITY,**
Al-Ahsa (SA)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 10 days.

(21) Appl. No.: **18/511,800**

(22) Filed: **Nov. 16, 2023**

Related U.S. Application Data

(62) Division of application No. 18/238,694, filed on Aug. 28, 2023, now Pat. No. 11,891,353.

(51) **Int. Cl.**
C07C 243/14 (2006.01)
A01N 39/00 (2006.01)
A01P 7/04 (2006.01)
C07C 241/02 (2006.01)

(52) **U.S. Cl.**
CPC **C07C 243/14** (2013.01); **A01N 39/00** (2013.01); **A01P 7/04** (2021.08); **C07C 241/02** (2013.01)

(58) **Field of Classification Search**
CPC **C07C 243/14**; **C07C 241/02**; **A01P 7/04**; **A01N 39/00**
See application file for complete search history.

(56) **References Cited**

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2008/0171769 A1 7/2008 Gregor et al.

FOREIGN PATENT DOCUMENTS

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OTHER PUBLICATIONS

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Primary Examiner — Jared Barsky

(74) *Attorney, Agent, or Firm* — Nath, Goldberg & Meyer; Richard C. Litman

(57) **ABSTRACT**

A compound 3,3'-(hydrazine-1,2-diyl)bis(1-(naphthalen-2-yloxy)propan-2-ol), its synthesis, and its use as an insecticidal agent.

8 Claims, 1 Drawing Sheet

Exhibit A-11-B

PTOL-85 Part B — U.S. Patent No. 12116333

Application No. 18511800

Signed by James Lafave (Reg. 71013)

Box 2 of PTOL-85B: "Richard C. Litman"

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.

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18/511,800 11/16/2023 MAI MOSTAFA KHALAF ALI 33150.71A 4817
TITLE OF INVENTION: 3,3'-(hydrazine-1,2-diyl)bis(1-(naphthalen-2-yloxy)propan-2-ol) AS AN ECOFRIENDLY INSECTICIDAL AGENT AGAINST SPODOPTERA LITTORALIS (BOISD.)

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1 Nath, Goldberg & Meyer
2 Richard C. Litman
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(A) NAME OF ASSIGNEE: KING FAISAL UNIVERSITY
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NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.
Authorized Signature /James Lafave/ Date 2024-06-05
Typed or printed name James Lafave Registration No. 71013

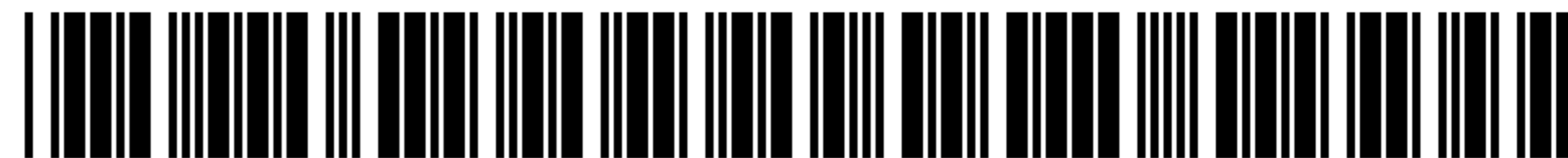
Exhibit A-12

U.S. Patent No. 12194434

Application No. 18612504

Face page — Attorney/Agent/Firm: Nath, Goldberg & Meyer; Richard
C. Litman

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.



US012194434B1

(12) **United States Patent**
Atta et al.

(10) **Patent No.:** **US 12,194,434 B1**
(45) **Date of Patent:** **Jan. 14, 2025**

(54) **IMIDAZOLIUM IONIC LIQUIDS MADE USING CARDANOL EXTRACTED FROM CASHEW NUTSHELL OIL TO ENHANCE CRUDE OIL RECOVERY IN OILFIELDS**

(71) Applicant: **KING SAUD UNIVERSITY**, Riyadh (SA)

(72) Inventors: **Ayman M. Atta**, Riyadh (SA); **Hamad A. Al-Lohedan**, Riyadh (SA); **Abdelrahman O. Ezzat**, Riyadh (SA); **Ali K. Aldalbahi**, Riyadh (SA)

(73) Assignee: **KING SAUD UNIVERSITY**, Riyadh (SA)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 25 days.

(21) Appl. No.: **18/612,504**

(22) Filed: **Mar. 21, 2024**

Related U.S. Application Data

(62) Division of application No. 18/212,034, filed on Jun. 20, 2023, now Pat. No. 11,969,708.

(51) Int. Cl.

H01M 4/48 (2010.01)
B01J 20/04 (2006.01)
B01J 20/06 (2006.01)
B01J 20/10 (2006.01)
B01J 20/26 (2006.01)
B01J 20/28 (2006.01)
B01J 20/30 (2006.01)
B01J 20/32 (2006.01)
C02F 1/28 (2023.01)
C02F 1/68 (2023.01)
C07D 233/60 (2006.01)
C08G 65/331 (2006.01)
C08G 65/333 (2006.01)
C08G 65/337 (2006.01)
E02B 15/04 (2006.01)
H01M 4/36 (2006.01)
C02F 101/32 (2006.01)
C02F 103/08 (2006.01)

(52) U.S. Cl.

CPC **B01J 20/265** (2013.01); **B01J 20/043** (2013.01); **B01J 20/06** (2013.01); **B01J 20/103** (2013.01); **B01J 20/28009** (2013.01); **B01J 20/28016** (2013.01); **B01J 20/3085** (2013.01); **B01J 20/3204** (2013.01); **B01J**

20/3221 (2013.01); **B01J 20/3287** (2013.01); **B01J 20/3293** (2013.01); **C02F 1/288** (2013.01); **C02F 1/681** (2013.01); **C07D 233/60** (2013.01); **C08G 65/3317** (2013.01); **C08G 65/3337** (2013.01); **C08G 65/337** (2013.01); **E02B 15/041** (2013.01); **C02F 1/281** (2013.01); **C02F 1/285** (2013.01); **C02F 2101/32** (2013.01); **C02F 2103/08** (2013.01)

(58) Field of Classification Search

CPC **B01J 20/043**; **B01J 20/06**; **B01J 20/103**; **B01J 20/28016**; **B01J 20/28009**; **B01J 20/3085**; **B01J 20/3221**; **B01J 20/3287**; **B01J 20/3293**; **C02F 1/288**; **C02F 1/681**; **C07D 233/60**; **C08G 65/33317**; **C08G 65/337**; **E02B 15/041**

See application file for complete search history.

(56) References Cited

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Eke et al., "Performance Evaluation of Cashew Nut Shell Liquid CNSL as Flow Improver for Waxy Crude Oils," SPE Nigeria Annual International Conference and Exhibition, Lagos, Nigeria, Aug. 2019.

* cited by examiner

Primary Examiner — Yong L Chu

(74) Attorney, Agent, or Firm — Nath, Goldberg & Meyer; Richard C. Litman

(57) ABSTRACT

Modified chemical structures of cardanol extracted from cashew nut shell oil, and the use of the same to prepare imidazolium ionic liquids (IILs). The IILs can be used to prepare different types of silica, magnetite and calcium carbonate nanoparticles (NPs) as multifunctional oilfield chemicals for use in various oil spill collection, de-emulsification, viscosity improvement, asphaltene dispersant, and enhanced oil recovery applications.

7 Claims, 13 Drawing Sheets

Exhibit A-12-B

PTOL-85 Part B — U.S. Patent No. 12194434

Application No. 18612504

Signed by James Lafave (Reg. 71013)

Box 2 of PTOL-85B: "Richard C. Litman"

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gotlieb, J.S.C.

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18/612,504 03/21/2024 AYMAN M. ATTA 33056.80A 7042
TITLE OF INVENTION: IMIDAZOLIUM IONIC LIQUIDS MADE USING CARDANOL EXTRACTED FROM CASHEW NUTSHELL OIL TO ENHANCE CRUDE OIL RECOVERY IN OILFIELDS

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1 Nath, Goldberg & Meyer
2 Richard C. Litman
3

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(A) NAME OF ASSIGNEE KING SAUD UNIVERSITY (B) RESIDENCE: (CITY and STATE OR COUNTRY) RIYADH, SAUDI ARABIA

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

4a. Fees submitted: Issue Fee Publication Fee (if required)

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

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Applicant asserting small entity status. See 37 CFR 1.27
Applicant changing to regular undiscounted fee status.

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Authorized Signature /James Lafave/ Date 2024-05-28
Typed or printed name James Lafave Registration No. 71013

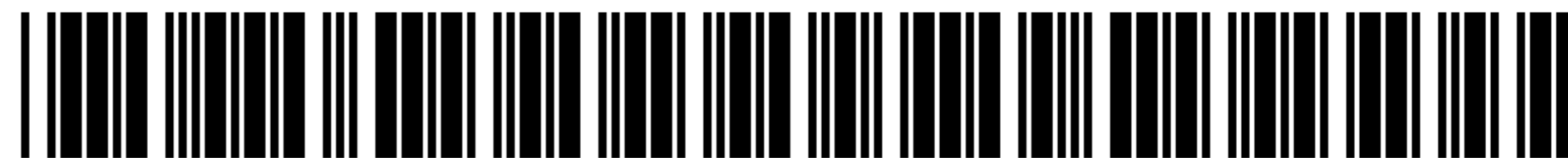
Exhibit A — Lafave Anomaly

U.S. Patent No. 12,127,901 (KSU, granted 10/29/2024)

PTOL-85B dated 9/25/2024 — Lafave signed and typed his OWN
name in Box 2

Face page · PTOL-85B · POA (Meyer)

Litman v. Goldberg · Index No. 524343/2025
NY Supreme Court, Kings County · Hon. Brian L. Gottlieb, J.S.C.



US012127901B1

(12) **United States Patent**
Mirdad

(10) **Patent No.:** **US 12,127,901 B1**
(45) **Date of Patent:** **Oct. 29, 2024**

(54) **BLADE FOR INTERPROXIMAL CROWN LENGTHENING**

5,324,299 A 6/1994 Davison et al.
5,556,409 A * 9/1996 Haining A61B 17/3211
30/162

(71) Applicant: **KING SAUD UNIVERSITY**, Riyadh (SA)

D576,730 S 9/2008 Kim
(Continued)

(72) Inventor: **Amani Abdulaziz Mirdad**, Riyadh (SA)

FOREIGN PATENT DOCUMENTS

(73) Assignee: **KING SAUD UNIVERSITY**, Riyadh (SA)

DE 3624243 A1 1/1988

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

OTHER PUBLICATIONS

(21) Appl. No.: **18/628,953**

“StackedSkincare Dermaplaning Face Exfoliating Tool—Smooth, Radiant, Glowing Skin—Easy to Use Dermaplane Razor for Face—Hair Removal Blade for Eyebrows and Peach Fuzz”; printed on Feb. 28, 2024 from https://www.amazon.com/dp/B071KX2V4C?linkCode=ogi&tag=bp_links-20&ascsubtag=%5bartid%2089.g.23610458%5bsrc%5bch%5blt.

(22) Filed: **Apr. 8, 2024**

Primary Examiner — Yogesh P Patel

(51) **Int. Cl.**
A61C 3/02 (2006.01)

(74) *Attorney, Agent, or Firm* — Nath, Goldberg & Meyer; James Lafave

(52) **U.S. Cl.**
CPC **A61C 3/02** (2013.01)

(57) **ABSTRACT**

(58) **Field of Classification Search**
CPC A61C 3/02; A61C 3/00; A61C 3/12; A61C 3/06; A61B 17/3213; A61B 17/3209; A61B 17/32093; A61B 17/32096; A61B 17/3211; A61B 17/32113; A61B 17/144; A61B 2017/320074–320076; A61B 17/3217; B26B 9/00; B26B 9/02
See application file for complete search history.

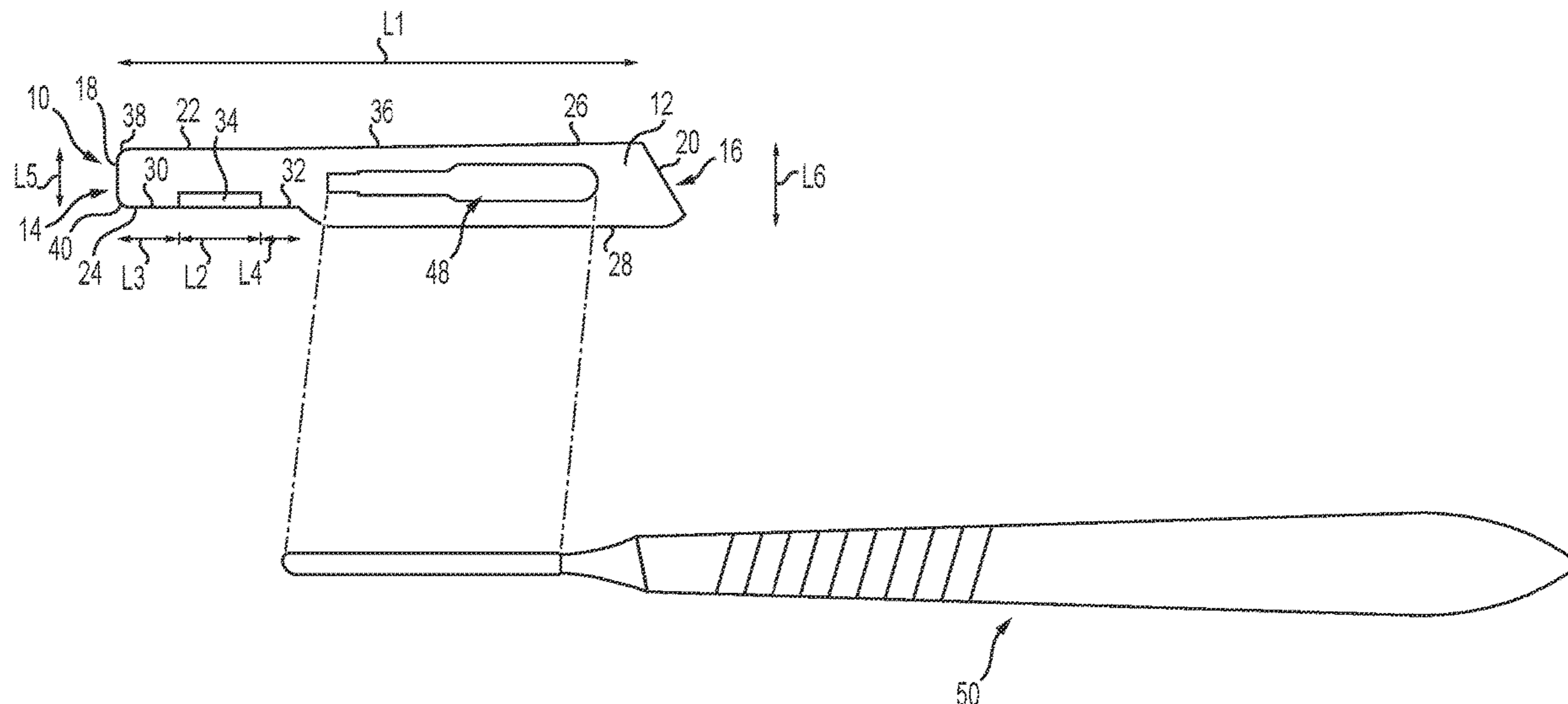
The blade for interproximal crown lengthening may be used to shave bone during osseous resection in an interproximal crown lengthening procedure. The blade includes a flat planar blade body with a forward shaving portion and a rear attachment portion, and longitudinally opposed forward and rear edges. The forward shaving portion has laterally opposed first and second edges, and the rear attachment portion also has laterally opposed first and second edges. The second edge of the forward shaving portion has first and second blunt portions with a sharp shaving portion positioned therebetween. The first blunt portion of the second edge of the forward shaving portion is located adjacent to the forward edge of the planar blade body such that the sharp shaving portion is spaced apart therefrom. An opening is formed through the rear attachment portion for attachment to a conventional scalpel handle or the like.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,610,246 A * 10/1971 Salmon A61B 17/3213
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433/144
4,299,572 A * 11/1981 McKinney A61C 3/12
433/144

15 Claims, 1 Drawing Sheet



PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: **Mail Stop ISSUE FEE**
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

37833 7590 09/13/2024
Richard C. Litman
Nath, Goldberg & Meyer
 112 S. West Street
 Alexandria, VA 22314

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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18/628,953 04/08/2024 AMANI ABDULAZIZ MIRDAD 33092.11U 3756

TITLE OF INVENTION: BLADE FOR INTERPROXIMAL CROWN LENGTHENING

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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nonprovisional SMALL \$480 \$0.00 \$0.00 \$480 12/13/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
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PATEL, YOGESH P 3772 433-144000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.
- "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
 (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

- 1 Nath, Goldberg & Meyer
 2 James Lafave
 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

KING SAUD UNIVERSITY

RIYADH, SAUDI ARABIA

Please check the appropriate assignee category or categories (will not be printed on the patent) : Individual Corporation or other private group entity Government

4a. Fees submitted: Issue Fee Publication Fee (if required)

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

- Electronic Payment via the USPTO patent electronic filing system Enclosed check Non-electronic payment by credit card (Attach form PTO-2038)

The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 14-0112

5. Change in Entity Status (from status indicated above)

- Applicant certifying micro entity status. See 37 CFR 1.29
- Applicant asserting small entity status. See 37 CFR 1.27
- Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /James Lafave/

Date 2024-09-25

Typed or printed name James Lafave

Registration No. 71013

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	
Filing Date	
First Named Inventor	AMANI ABDULAZIZ MIRDAD
Title	BLADE FOR INTERPROXIMAL CROWN LENGTHENING
Art Unit	
Examiner Name	
Attorney Docket Number	33092.11U

SIGNATURE of Applicant or Patent Practitioner

Signature	/Jerald L. Meyer/	Date (Optional)	
Name	Jerald L. Meyer	Registration Number	41,194
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.



*Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Table with 2 columns: Application Number, Filing Date. Filing Date contains HEREWITH.

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above:

37833

OR
I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

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OR

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OR

Firm or Individual Name

Address

City State Zip

Country

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I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

KING SAUD UNIVERSITY

- Inventor or Joint Inventor (title not required below)
Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)
Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature Date (Optional) March 31, 2024

Name Dr. Thamer Ali Albahkali

Title Director of Intellectual Property & Technology Licensing Program, King Saud University

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

Total of forms are submitted.