

U.S. Patent Legal Analysis — Evidentiary Exhibits

Cited-document index · Key excerpts · Pinpoint citations · Document integrity

Evidentiary Exhibits — scope of reliance and privilege status identical to the accompanying main report

Item	Content
Subject patent	US10813517B2
Product / version analyzed	SharkNinja Shark IQ Robot Self-Empty XL RV1001AE
Analysis as-of date	2026-07-22
Relationship to main report	Accompanies the main report; does not replace the legal analysis therein

These evidentiary exhibits compile the material public evidence, prosecution history and prior-art excerpts relied on in the main report. Excerpts do not replace the originals; the preserved source documents, file hashes and the specific analysis in the main report control.

Exhibit Index and Notes

The exhibits are organized by evidentiary function and cross-referenced to the facts and conclusions of the main report through the master index: Series A covers the subject patent, claims and title records; Series B covers the USPTO prosecution history; Series C covers litigation, service, license and procedural evidence; Series D covers product/conduct evidence; Series E covers prior art and non-patent literature; Series F covers source, date, hash, OCR, translation and confidentiality records.

Master Exhibit Index and Cross-Reference to the Main Report

Exhibit series	Evidentiary function	Corresponding section of main report
A	Subject patent, claims, title and official records	Patent status, title and claim versions
B	USPTO prosecution history and scope limitations	Claim construction, scope surrender and Festo
C	Litigation, service, license and procedural evidence	Procedural clocks, standing, license and remedies
D	Product, Version and Conduct Evidence	Element-by-element infringement and §271 paths
E	Key patent / non-patent literature	Invalidity attack paths and element-by-element comparison
F	Evidence integrity, OCR, translation and confidentiality	All material facts and conclusions

Exhibit A — Subject Patent, Claims, Title and Official Records

Item	Content
Patent No.	US10813517B2
Application No.	
Effective filing date	
Current claims	Not established on the current record.
Independent claims	Not established on the current record.
Status	Not established
Matter	Current record
Title, assignment and standing	The complete chain of title to the subject patent, the substantive rights held at the time of suit, exclusive licenses and necessary parties have not been reviewed against complete assignment records and agreements; this draft reaches no definitive conclusion on standing.
License, covenant not to sue and exhaustion	No potentially applicable express license, implied license, covenant not to sue, settlement agreement or authorized-sale chain has been obtained, so the license and exhaustion defenses are not established.

Exhibit B — USPTO Prosecution History, Amendments and Estoppel

Date / round	Prosecution matter	Amendment / response	Scope impact	Source evidence
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Date / round	Prosecution matter	Amendment / response	Scope impact	Source evidence
	No structured record at this time			

Exhibit C — Litigation, Service, Title, License and Procedural Evidence

Preserve source documents such as the complaint, proof of service, court scheduling orders, assignment/license records and insurance and indemnity notices, recording for each the event date, public-availability date, retrieval date, party, pinpoint citation and hash. Evidence not yet provided must be marked as not established in the main report.

Exhibit D — Product, Version and Conduct Evidence

ID	Claim element / issue	Assessment	Evidence	Pinpoint citation
	No accused-product evidence provided	Outside current scope		

Exhibit E — Element-by-Element Comparison of Key Prior Art and Non-Patent Literature

Item		Conclusion					
Applicable regime		Not established on the current record.					
Date-qualification analysis status		Preliminary conclusion; subject to U.S. attorney review					
Key caution		Not established					
Key full-text evidence status		Completed					
Claim	Element	Claim language	Reference	Assessment	Full-text pinpoint citation	Technical analysis	Patentee's strongest rebuttal
1	1.a	An autonomous cleaning apparatus comprising: a cleaning head; a drive system operable to move the cleaning apparatus along a surface of a working environment while the cleaning head cleans the surfac...	PA-001	Shown	PA-001-P20-PAR0033: pdf page: 20; paragraph: [0033]	Discloses cleaning unit 102, drive wheels/motors and a processor-controlled autonomous cleaning apparatus.	Not demonstrated; limitations 1.c and 1.e are absent and have not been shown to be necessarily inherent
1	1.b	prior to initiation of a cleaning mission of the cleaning apparatus, store a map of at least a portion of the working environment based on previously determined positions of the cleaning apparatus	PA-001	Not demonstrated	PA-001-P24-PAR0083: pdf page: 24; paragraph: [0083]	Discloses position tracking, map building/updates and marking of cleaned and uncleaned cells, but the cited passages do not state that this data is formed before the current cleaning mission.	Not demonstrated; limitations 1.c and 1.e are absent and have not been shown to be necessarily inherent
1	1.c	and autonomously identify a hot spot in the map based on the previously determined positions of the cleaning apparatus	PA-001	not shown	PA-001-P25-PAR0087: pdf page: 25; paragraph: [0087]	Discloses localized / predetermined-area cleaning and dirt or coverage information, but does not disclose autonomously identifying a hot spot from accumulated robot positions before the mission begins.	Not demonstrated; limitations 1.c and 1.e are absent and have not been shown to be necessarily inherent

Claim	Element	Claim language	Reference	Assessment	Full-text pinpoint citation	Technical analysis	Patentee's strongest rebuttal
1	1.d	determine, during the cleaning mission, a position of the cleaning apparatus in the working environment	PA-001	Shown	PA-001-P22-PAR0056: pdf page: 22; paragraph: [0056]	Discloses visual localization and position tracking.	Not demonstrated; limitations 1.c and 1.e are absent and have not been shown to be necessarily inherent
1	1.e	cause the cleaning apparatus, during the cleaning mission, to initiate a spot coverage cleaning behavior of the cleaning apparatus in response to the determined position of the cleaning apparatus cor...	PA-001	not shown	PA-001-P25-PAR0087: pdf page: 25; paragraph: [0087]	Localized cleaning is disclosed, but the required causal link between entering a previously autonomously learned hot spot and triggering the cleaning behavior is absent.	Not demonstrated; limitations 1.c and 1.e are absent and have not been shown to be necessarily inherent
1	1.a	An autonomous cleaning apparatus comprising: a cleaning head; a drive system operable to move the cleaning apparatus along a surface of a working environment while the cleaning head cleans the surfac...	PA-002	Not demonstrated	PA-002-P40: pdf page: 40	Discloses a map interface and robotic cleaning missions.	Not demonstrated; express user designation does not satisfy the autonomous-identification and prior-position limitations
1	1.b	prior to initiation of a cleaning mission of the cleaning apparatus, store a map of at least a portion of the working environment based on previously determined positions of the cleaning apparatus	PA-002	not shown	PA-002-P1: pdf page: 1	Although map zones are present, the passages relied on do not establish the prior-position data relationship required by the claim.	Not demonstrated; express user designation does not satisfy the autonomous-identification and prior-position limitations
1	1.c	and autonomously identify a hot spot in the map based on the previously determined positions of the cleaning apparatus	PA-002	contradicted	PA-002-P55: pdf page: 55	The user annotates map attributes or designates a "clean now" area; the identification is performed by a human rather than by the device.	Not demonstrated; express user designation does not satisfy the autonomous-identification and prior-position limitations
1	1.d	determine, during the cleaning mission, a position of the cleaning apparatus in the working environment	PA-002	Not demonstrated	PA-002-P40: pdf page: 40	The robot uses map zones or destinations to execute behaviors, but the learned-hot-spot chain required by the claim is not disclosed.	Not demonstrated; express user designation does not satisfy the autonomous-identification and prior-position limitations
1	1.a	An autonomous cleaning apparatus comprising: a cleaning head; a drive system operable to move the cleaning apparatus along a surface of a working environment while the cleaning head cleans the surfac...	PA-008	Shown	PA-008-P7: pdf page: 7	Expressly discloses a self-propelled autonomous cleaner, drive wheels/motors, a cleaning unit, sensors and a controller.	Not anticipatory. This is currently the strongest additional reference as to the behavior limitations, but it does not disclose an autonomous classifier taking prior positions as input; the 2023 ITC decision likewise found that Kawakami does not anticipate claims 1 and 9.

Claim	Element	Claim language	Reference	Assessment	Full-text pinpoint citation	Technical analysis	Patentee's strongest rebuttal
1	1.b	prior to initiation of a cleaning mission of the cleaning apparatus, store a map of at least a portion of the working environment based on previously determined positions of the cleaning apparatus	PA-008	Not demonstrated	PA-008-P8: pdf page: 8	Memory stores reflectance by floor position and the position detector indexes the map accordingly; that map records a floor-condition baseline and is not expressly generated from the robot's prior positions.	Not anticipatory. This is currently the strongest additional reference as to the behavior limitations, but it does not disclose an autonomous classifier taking prior positions as input; the 2023 ITC decision likewise found that Kawakami does not anticipate claims 1 and 9.
1	1.c	and autonomously identify a hot spot in the map based on the previously determined positions of the cleaning apparatus	PA-008	not shown	PA-008-P1: pdf page: 1	The controller detects dirt and may use a pre-measured condition map, but the classification input is dirt/reflectance rather than the robot's prior positions, and detection generally occurs during cleaning.	Not anticipatory. This is currently the strongest additional reference as to the behavior limitations, but it does not disclose an autonomous classifier taking prior positions as input; the 2023 ITC decision likewise found that Kawakami does not anticipate claims 1 and 9.
1	1.d	determine, during the cleaning mission, a position of the cleaning apparatus in the working environment	PA-008	Shown	PA-008-P7: pdf page: 7	Wheel encoders / position detectors are used to determine the current position.	Not anticipatory. This is currently the strongest additional reference as to the behavior limitations, but it does not disclose an autonomous classifier taking prior positions as input; the 2023 ITC decision likewise found that Kawakami does not anticipate claims 1 and 9.
1	1.e	cause the cleaning apparatus, during the cleaning mission, to initiate a spot coverage cleaning behavior of the cleaning apparatus in response to the determined position of the cleaning apparatus cor...	PA-008	Not demonstrated	PA-008-P1: pdf page: 1	A fine-cleaning mode is selected by position in response to detected or stored dirt, which is functionally close; but the antecedent autonomous identification based on prior positions is still absent.	Not anticipatory. This is currently the strongest additional reference as to the behavior limitations, but it does not disclose an autonomous classifier taking prior positions as input; the 2023 ITC decision likewise found that Kawakami does not anticipate claims 1 and 9.
9	9.a	An autonomous cleaning apparatus comprising a cleaning head, a drive system, and a receiving system configured to perform the inherited claim 4 functions	PA-001	Shown	PA-001-P20-PAR0033: pdf page: 20; paragraph: [0033]	Claim 9 incorporates all limitations of claim 4. Discloses cleaning unit 102, drive wheels/motors and a processor-controlled autonomous cleaning apparatus.	Not demonstrated; limitations 1.c and 1.e are absent and have not been shown to be necessarily inherent

Claim	Element	Claim language	Reference	Assessment	Full-text pinpoint citation	Technical analysis	Patentee's strongest rebuttal
9	9.b	prior to initiation of a cleaning mission, store a map based on previously determined positions of the cleaning apparatus	PA-001	Not demonstrated	PA-001-P24-PAR0083: pdf page: 24; paragraph: [0083]	Claim 9 incorporates all limitations of claim 4. Discloses position tracking, map building/updating and marking of cleaned and uncleaned cells, but the cited passages do not state that this data is formed before the current cleaning mission.	Not demonstrated; limitations 1.c and 1.e are absent and have not been shown to be necessarily inherent
9	9.c	and autonomously identify a predefined zone in the map based on the previously determined positions of the cleaning apparatus	PA-001	not shown	PA-001-P25-PAR0087: pdf page: 25; paragraph: [0087]	Claim 9 incorporates all limitations of claim 4. Discloses localized / predetermined-area cleaning and dirt or coverage information, but does not disclose autonomously identifying a hot spot from accumulated robot positions before the mission begins.	Not demonstrated; limitations 1.c and 1.e are absent and have not been shown to be necessarily inherent
9	9.d	determine, during the cleaning mission, a position of the cleaning apparatus in the working environment	PA-001	Shown	PA-001-P22-PAR0056: pdf page: 22; paragraph: [0056]	Claim 9 incorporates all limitations of claim 4. Discloses visual localization and position tracking.	Not demonstrated; limitations 1.c and 1.e are absent and have not been shown to be necessarily inherent
9	9.e	cause the cleaning apparatus, during the cleaning mission, to initiate a prescribed conduct to alter movement in response to the determined position being within the predefined zone indicated on the ...	PA-001	not shown	PA-001-P25-PAR0087: pdf page: 25; paragraph: [0087]	Claim 9 incorporates all limitations of claim 4. Localized cleaning is disclosed, but the required causal link between entering a previously autonomously learned hot spot and triggering the cleaning behavior is absent.	Not demonstrated; limitations 1.c and 1.e are absent and have not been shown to be necessarily inherent
9	9.f	initiate a behavior selected from the group consisting of a spot coverage behavior, an edge-following behavior, an escape behavior, a turn behavior, and a room coverage behavior	PA-001	Shown	PA-001-P1: pdf page: 1	Taylor expressly discloses spot / localized cleaning, one of the behaviors recited in claim 9.	Even where a recited behavior is disclosed, that does not cure the absence, in inherited claim 4, of the prior-position classifier and of the causal relationship between entering the zone and triggering the behavior.
9	9.a	An autonomous cleaning apparatus comprising a cleaning head, a drive system, and a receiving system configured to perform the inherited claim 4 functions	PA-002	Not demonstrated	PA-002-P40: pdf page: 40	Claim 9 incorporates all limitations of claim 4. Discloses a map interface and robotic cleaning missions.	Not demonstrated; express user designation does not satisfy the autonomous-identification and prior-position limitations
9	9.b	prior to initiation of a cleaning mission, store a map based on previously determined positions of the cleaning apparatus	PA-002	not shown	PA-002-P1: pdf page: 1	Claim 9 incorporates all limitations of claim 4. Although map zones are present, the passages relied on do not establish the prior-position data relationship required by the claim.	Not demonstrated; express user designation does not satisfy the autonomous-identification and prior-position limitations

Claim	Element	Claim language	Reference	Assessment	Full-text pinpoint citation	Technical analysis	Patentee's strongest rebuttal
9	9.c	and autonomously identify a predefined zone in the map based on the previously determined positions of the cleaning apparatus	PA-002	contradicted	PA-002-P55: pdf page: 55	Claim 9 incorporates all limitations of claim 4. The user annotates map attributes or designates a "clean now" area; the identification is performed by a human rather than by the device.	Not demonstrated; express user designation does not satisfy the autonomous-identification and prior-position limitations
9	9.d	determine, during the cleaning mission, a position of the cleaning apparatus in the working environment	PA-002	Not demonstrated	PA-002-P40: pdf page: 40	Claim 9 incorporates all limitations of claim 4. The robot uses map zones or destinations to execute behaviors, but the learned-hot-spot chain required by the claim is not disclosed.	Not demonstrated; express user designation does not satisfy the autonomous-identification and prior-position limitations
9	9.f	initiate a behavior selected from the group consisting of a spot coverage behavior, an edge-following behavior, an escape behavior, a turn behavior, and a room coverage behavior	PA-002	Not demonstrated	PA-002-P1: pdf page: 1	The preserved passages do not simultaneously establish one of the closed Markush behaviors and the inherited classifier / trigger chain.	Even where a recited behavior is disclosed, that does not cure the absence, in inherited claim 4, of the prior-position classifier and of the causal relationship between entering the zone and triggering the behavior.
9	9.a	An autonomous cleaning apparatus comprising a cleaning head, a drive system, and a receiving system configured to perform the inherited claim 4 functions	PA-008	Shown	PA-008-P7: pdf page: 7	Claim 9 incorporates all limitations of claim 4. Expressly discloses a self-propelled autonomous cleaner, drive wheels/motors, a cleaning unit, sensors and a controller.	Not anticipatory. This is currently the strongest additional reference as to the behavior limitations, but it does not disclose an autonomous classifier taking prior positions as input; the 2023 ITC decision likewise found that Kawakami does not anticipate claims 1 and 9.
9	9.b	prior to initiation of a cleaning mission, store a map based on previously determined positions of the cleaning apparatus	PA-008	Not demonstrated	PA-008-P8: pdf page: 8	Claim 9 incorporates all limitations of claim 4. Memory stores reflectance by floor position and the position detector indexes the map accordingly; that map records a floor-condition baseline and is not expressly generated from the robot's prior positions.	Not anticipatory. This is currently the strongest additional reference as to the behavior limitations, but it does not disclose an autonomous classifier taking prior positions as input; the 2023 ITC decision likewise found that Kawakami does not anticipate claims 1 and 9.

Claim	Element	Claim language	Reference	Assessment	Full-text pinpoint citation	Technical analysis	Patentee's strongest rebuttal
9	9.c	and autonomously identify a predefined zone in the map based on the previously determined positions of the cleaning apparatus	PA-008	not shown	PA-008-P1: pdf page: 1	Claim 9 incorporates all limitations of claim 4. The controller detects dirt and may use a pre-measured condition map, but the classification input is dirt/reflectance rather than the robot's prior positions, and detection generally occurs during cleaning.	Not anticipatory. This is currently the strongest additional reference as to the behavior limitations, but it does not disclose an autonomous classifier taking prior positions as input; the 2023 ITC decision likewise found that Kawakami does not anticipate claims 1 and 9.
9	9.d	determine, during the cleaning mission, a position of the cleaning apparatus in the working environment	PA-008	Shown	PA-008-P7: pdf page: 7	Claim 9 incorporates all limitations of claim 4. Wheel encoders / position detectors are used to determine the current position.	Not anticipatory. This is currently the strongest additional reference as to the behavior limitations, but it does not disclose an autonomous classifier taking prior positions as input; the 2023 ITC decision likewise found that Kawakami does not anticipate claims 1 and 9.
9	9.e	cause the cleaning apparatus, during the cleaning mission, to initiate a prescribed conduct to alter movement in response to the determined position being within the predefined zone indicated on the ...	PA-008	Not demonstrated	PA-008-P1: pdf page: 1	Claim 9 incorporates all limitations of claim 4. A fine-cleaning mode is selected by position in response to detected or stored dirt, which is functionally close; but the antecedent autonomous identification based on prior positions is still absent.	Not anticipatory. This is currently the strongest additional reference as to the behavior limitations, but it does not disclose an autonomous classifier taking prior positions as input; the 2023 ITC decision likewise found that Kawakami does not anticipate claims 1 and 9.
9	9.f	initiate a behavior selected from the group consisting of a spot coverage behavior, an edge-following behavior, an escape behavior, a turn behavior, and a room coverage behavior	PA-008	Not demonstrated	PA-008-P1: pdf page: 1	The preserved passages do not simultaneously establish one of the closed Markush behaviors and the inherited classifier / trigger chain.	Even where a recited behavior is disclosed, that does not cure the absence, in inherited claim 4, of the prior-position classifier and of the causal relationship between entering the zone and triggering the behavior.

Exhibit F — Evidence Integrity, Dates, OCR, Translation and Confidentiality Index

Source ID	Document / source	Event / publication / retrieval date	Pinpoint citation	Raw / normalized SHA-256	OCR / language / translation / confidentiality
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Source ID	Document / source	Event / publication / retrieval date	Pinpoint citation	Raw / normalized SHA-256	OCR / language / translation / confidentiality
CL-001	Electrolux Group history timeline 2000–2009 (Trilobite)	event date: Not established; public date: Not established; retrieved at: 2026-07-20T21:00:00Z	See the corresponding analysis in the main report	raw: 42ce152a02d22919a c04adfd953b22c067 54934f3432e48773f9 019f6081842; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
CL-002	World's first automatic vacuum cleaner soon in shops	event date: Not established; public date: Not established; retrieved at: 2026-07-20T21:00:00Z	See the corresponding analysis in the main report	raw: 1f996d87b35789e890 8f85e26f1663680e8e 4fc3f311ba7a1200b6 dd72dd53a4; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PA-001P	Taylor — US20050010331A1 official publication PDF	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:56:28Z	See the corresponding analysis in the main report	raw: 2c5b80318ff129f4ae2 8a4fc16966cdaef6cf 4e19e5bba04d36944 0a4ef9b59; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PA-001T	Taylor searchable text	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:56:30Z	See the corresponding analysis in the main report	raw: 53eef769cab7954771 83717bb1ca1ba5febf b73015d55b2f174afd 830963652; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PA-002P	Allen — US5995884 official patent PDF	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:56:31Z	See the corresponding analysis in the main report	raw: d483b9975e7a19f3b9 995c19734d7baa44c a169b60795ea74363 754be47b06a8; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PA-002T	Allen searchable text	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:56:37Z	See the corresponding analysis in the main report	raw: 8e53d7844a0959ea5 471c3bf633e48ec91f 60b117ada520e055c 55cd6850866a; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PA-003P	Jones et al. — US6809490 official patent PDF	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:56:37Z	See the corresponding analysis in the main report	raw: bc3dcc879bf3291b14 fd789660f34cc9936a 61cec8031519a595e a44008dcad; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PA-003T	Jones et al. searchable text	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:56:40Z	See the corresponding analysis in the main report	raw: d0d61c44ba06a5891 62ac84d14d4d8f45a3 7b3e8a8ed3a9dbfc27 5bea40f87b2; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PA-004P	Nugent et al. — US6883201 official patent PDF	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:56:40Z	See the corresponding analysis in the main report	raw: 2d1ca4f8ecbe4b83f2 ba2ad64be3cc57a31 57e9868ec38f8627df 6d9f94ee13b; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established

Source ID	Document / source	Event / publication / retrieval date	Pinpoint citation	Raw / normalized SHA-256	OCR / language / translation / confidentiality
PA-004T	Nugent et al. searchable text	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:56:43Z	See the corresponding analysis in the main report	raw: 7c6f504c5159d10b70505ae7ff745335c69aca7208401dd6f73ba5ed233dfe81; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PA-005P	Samsung — US20030028993A1 official publication PDF	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:56:43Z	See the corresponding analysis in the main report	raw: ae8916cedb27e09b48ce8541eb393730a321dc0f4e9a09563ae6b28be0f408db; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PA-005T	Samsung searchable text	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:56:45Z	See the corresponding analysis in the main report	raw: 72aafd8ddea6bdb85983db2fd3d6765e49e8ad6a82bebbdef493230419d8c1159; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PA-006P	Everett et al. — US5363305 official patent PDF	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:56:45Z	See the corresponding analysis in the main report	raw: 467567712d74123a3ad9df3836d29e651e56de04c167faa4f68619b967db5ad7; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PA-006T	Everett et al. searchable text	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:56:46Z	See the corresponding analysis in the main report	raw: 30f15527c23a98da025ef75e16d3dc1b371b719cb7142342f7a2e776ace28300; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PA-007P	Dudar et al. — US5324948 official patent PDF	event date: Not established; public date: Not established; retrieved at: 2026-07-21T01:00:30Z	See the corresponding analysis in the main report	raw: 03af6e17304d9dbe6568517d20b796d7dc305d94577a09a2e81db1fe643fae17; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PA-007T	Dudar et al. searchable text	event date: Not established; public date: Not established; retrieved at: 2026-07-21T01:00:30Z	See the corresponding analysis in the main report	raw: 843dbf59e0efc70c4a9bcb5787f55b2509b717a069da81cbbd2fd9b4b6ded3a7; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
NPL-001M	Hofner & Schmidt 1995 Crossref metadata record	event date: Not established; public date: Not established; retrieved at: 2026-07-21T01:00:30Z	See the corresponding analysis in the main report	raw: bd59cac4f04cdb3aba e2a347e652d37ca0b810ec7115c331afafa01074e16c0a; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PAT-001	US 10,813,517 patent PDF	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:32:48Z	See the corresponding analysis in the main report	raw: d7ee0acf37506fdbaf72047934e5168d3d96fe9783408957ec0e977757bae881; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established

Source ID	Document / source	Event / publication / retrieval date	Pinpoint citation	Raw / normalized SHA-256	OCR / language / translation / confidentiality
PAT-002	US 10,813,517 searchable patent text	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:32:48Z	See the corresponding analysis in the main report	raw: 8151124d156374fa6bd1922380ceb811e66a15c8caeef7fa947af42e75dbdcf4; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
LIT-001	District court complaint filed 2021-01-28	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:32:48Z	See the corresponding analysis in the main report	raw: db6cb261fcc706c5a78dadf7ca73d053547ab1b6c844d5b49e0c28e0d7cce1e8; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
LIT-002	Public docket mirror for D. Mass. 1:21-cv-10155	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:32:48Z	See the corresponding analysis in the main report	raw: dccc25b3550ddc9975b31a730ca8e7c7da736ab4cab57e86e519e2397bf5332b; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PROD-001	Shark IQ Robot Self-Empty RV1001AE Owner's Guide	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:32:48Z	See the corresponding analysis in the main report	raw: 8320f22b1724911a3d23614d3516f2c490e181585fa62d1b0f62fc3ee2ccd6ba; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PROD-002	Shark IQ Robot Self-Empty RV1001AE Quick Start Guide	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:32:48Z	See the corresponding analysis in the main report	raw: 441d7f4f13e7283fe81310a2ace2c64a48c4ac9a43ca4bd272743eb7ed753256; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PTAB-001	PGR2021-00065 Petition	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:32:48Z	See the corresponding analysis in the main report	raw: 413338a0ba095b2b480fb1946821ae648b9c352dbb675a759a4af39c13d2d2c2; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PRI-001	U.S. Provisional Application 60/410,480	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:32:48Z	See the corresponding analysis in the main report	raw: 8716b43371207df69ca0c7ef118412cadec3840677551da32d630141c1eeae17; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PRI-002	US 7,024,278 parent patent searchable text	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:32:49Z	See the corresponding analysis in the main report	raw: c68d76b62e92d0bd1b2eff677acd455e43970fd1646894331fa61a57f687ce3d; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PTAB-002	PGR2021-00065 Institution Decision - Denied	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:32:50Z	See the corresponding analysis in the main report	raw: b52640ab4bd87961df5ea35025d0f000e9d2758998885f4e3506bd63ac74ad2e; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established

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ITC-001	USITC notice of review posture	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:32:50Z	See the corresponding analysis in the main report	raw: a688f23c3848399671438de90768296ffd5da03707273614c685f5f15b8d3a60; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
ITC-000	USITC investigation institution press release	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:32:50Z	See the corresponding analysis in the main report	raw: 972759a62011adf49d330a204dddfbc3f95f2309b94b3a6d5dffbd88dd6025a36; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
ITC-002	USITC Limited Exclusion and Cease-and-Desist Orders	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:32:50Z	See the corresponding analysis in the main report	raw: b6bd16d067290088614c6fed347202483132a5f2a3a8cd340f9ea a990d5b97cb; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
ITC-003	USITC 2024 vacatur and rescission notice	event date: Not established; public date: Not established; retrieved at: 2026-07-20T20:32:50Z	See the corresponding analysis in the main report	raw: a5a0b73189742ef20a03491f8329cd219d70d459c7f1a163274ca5dea6ef172f; normalized: Not established	ocr: Not established; language: Not established; translation: Not established; confidentiality: Not established; bates: Not established
PA-001-USPTO-PDF	USPTO Patent Public Search image service · evidence/prior art/PA-001/raw/PA-001-USPTO-PDF.pdf	public date: Not established; retrieved at: 2026-07-25T19:32:18Z	Publication No.: US20050010331A1; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 2005-01-13; verification status: official publication text verified; Date-proof source ID: PA-001-USPTO-PDF; Date-proof pinpoint cita...	raw: 2c5b80318ff129f4ae28a4fc16966cdaeaf6cf4e19e5bba04d369440a4ef9b59; normalized: bdef48bc148ce79ab53...	language: Not established; translation: not required
PA-001-SEARCHABLE	preserved searchable copy cross-checked to official publication · evidence/prior art/PA-001/raw/PA-001-SEARCHABLE.bin	public date: Not established; retrieved at: 2026-07-25T19:33:55Z	Publication No.: US20050010331A1; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 2005-01-13; verification status: official publication text verified; Date-proof source ID: PA-001-USPTO-PDF; Date-proof pinpoint cita...	raw: 53eef769cab795477183717bb1ca1ba5fefbf b73015d55b2f174afd830963652; normalized: bdef48bc148ce79ab53...	language: Not established; translation: not required

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PA-002-USPTO-PDF	USPTO Patent Public Search image service · evidence/prior art/PA-002/raw/PA-002-USPTO-PDF.pdf	public date: Not established; retrieved at: 2026-07-25T19:33:55Z	Publication No.: US5995884A; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 1999-11-30; verification status: official publication text verified; Date-proof source ID: PA-002-USPTO-PDF; Date-proof pinpoint citation: off...	raw: d483b9975e7a19f3b9995c19734d7baa44ca169b60795ea74363754be47b06a8; normalized: 50811a4f1176f72e8f7...	language: Not established; translation: not required
PA-002-SEARCHABLE	preserved searchable copy cross-checked to official publication · evidence/prior art/PA-002/raw/PA-002-SEARCHABLE.bin	public date: Not established; retrieved at: 2026-07-25T19:37:33Z	Publication No.: US5995884A; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 1999-11-30; verification status: official publication text verified; Date-proof source ID: PA-002-USPTO-PDF; Date-proof pinpoint citation: off...	raw: 8e53d7844a0959ea5471c3bf633e48ec91f60b117ada520e055c55cd6850866a; normalized: 50811a4f1176f72e8f7...	language: Not established; translation: not required
PA-003-USPTO-PDF	USPTO Patent Public Search image service · evidence/prior art/PA-003/raw/PA-003-USPTO-PDF.pdf	public date: Not established; retrieved at: 2026-07-25T19:37:33Z	Publication No.: US6809490B2; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 2004-10-26; verification status: official publication text verified; Date-proof source ID: PA-003-USPTO-PDF; Date-proof pinpoint citation: of...	raw: bc3dcc879fbf3291b14fd789660f34cc9936a61cec8031519a595ea44008dcad; normalized: 4f31f912150e54a4632...	language: Not established; translation: not required

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PA-003-SEARCHABLE	preserved searchable copy cross-checked to official publication · evidence/prior art/PA-003/raw/PA-003-SEARCHABLE.bin	public date: Not established; retrieved at: 2026-07-25T19:39:06Z	Publication No.: US6809490B2; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 2004-10-26; verification status: official publication text verified; Date-proof source ID: PA-003-USPTO-PDF; Date-proof pinpoint citation: of...	raw: d0d61c44ba06a589162ac84d14d4d8f45a37b3e8a8ed3a9dbfc275bea40f87b2; normalized: 4f31f912150e54a4632...	language: Not established; translation: not required
PA-004-USPTO-PDF	USPTO Patent Public Search image service · evidence/prior art/PA-004/raw/PA-004-USPTO-PDF.pdf	public date: Not established; retrieved at: 2026-07-25T19:39:06Z	Publication No.: US6883201B2; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 2005-04-26; verification status: official publication text verified; Date-proof source ID: PA-004-USPTO-PDF; Date-proof pinpoint citation: of...	raw: 2d1ca4f8ecbe4b83f2ba2ad64be3cc57a3157e9868ec38f8627df6d9f94ee13b; normalized: 10899edb5d164f7daa8...	language: Not established; translation: not required
PA-004-SEARCHABLE	preserved searchable copy cross-checked to official publication · evidence/prior art/PA-004/raw/PA-004-SEARCHABLE.bin	public date: Not established; retrieved at: 2026-07-25T19:40:32Z	Publication No.: US6883201B2; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 2005-04-26; verification status: official publication text verified; Date-proof source ID: PA-004-USPTO-PDF; Date-proof pinpoint citation: of...	raw: 7c6f504c5159d10b70505ae7ff745335c69aca7208401dd6f73ba5ed233dfe81; normalized: 10899edb5d164f7daa8...	language: Not established; translation: not required

Source ID	Document / source	Event / publication / retrieval date	Pinpoint citation	Raw / normalized SHA-256	OCR / language / translation / confidentiality
PA-005-USPTO-PDF	USPTO Patent Public Search image service · evidence/prior art/PA-005/raw/PA-005-USPTO-PDF.pdf	public date: Not established; retrieved at: 2026-07-25T19:40:32Z	Publication No.: US20030028993A1; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 2003-02-13; verification status: official publication text verified; Date-proof source ID: PA-005-USPTO-PDF; Date-proof pinpoint cita...	raw: ae8916cedb27e09b48ce8541eb393730a321dc0f4e9a09563ae6b28be0f408db; normalized: b8827f2f6aa41261917...	language: Not established; translation: not required
PA-005-SEARCHABLE	preserved searchable copy cross-checked to official publication · evidence/prior art/PA-005/raw/PA-005-SEARCHABLE.bin	public date: Not established; retrieved at: 2026-07-25T19:41:14Z	Publication No.: US20030028993A1; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 2003-02-13; verification status: official publication text verified; Date-proof source ID: PA-005-USPTO-PDF; Date-proof pinpoint cita...	raw: 72aafd8ddea6bdb85983db2fd3d6765e49e8ad6a82bebddef493230419d8c1159; normalized: b8827f2f6aa41261917...	language: Not established; translation: not required
PA-006-USPTO-PDF	USPTO Patent Public Search image service · evidence/prior art/PA-006/raw/PA-006-USPTO-PDF.pdf	public date: Not established; retrieved at: 2026-07-25T19:41:14Z	Publication No.: US5363305A; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 1994-11-08; verification status: official publication text verified; Date-proof source ID: PA-006-USPTO-PDF; Date-proof pinpoint citation: off...	raw: 467567712d74123a3ad9df3836d29e651e56de04c167faa4f68619b967db5ad7; normalized: 1df84ab31160e0b43c0...	language: Not established; translation: not required

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PA-006-SEARCHABLE	preserved searchable copy cross-checked to official publication · evidence/prior art/PA-006/raw/PA-006-SEARCHABLE.bin	public date: Not established; retrieved at: 2026-07-25T19:41:59Z	Publication No.: US5363305A; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 1994-11-08; verification status: official publication text verified; Date-proof source ID: PA-006-USPTO-PDF; Date-proof pinpoint citation: off...	raw: 30f15527c23a98da025ef75e16d3dc1b371b719cb7142342f7a2e776ace28300; normalized: 1df84ab31160e0b43c0...	language: Not established; translation: not required
PA-007-USPTO-PDF	USPTO Patent Public Search image service · evidence/prior art/PA-007/raw/PA-007-USPTO-PDF.pdf	public date: Not established; retrieved at: 2026-07-25T19:41:59Z	Publication No.: US5324948A; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 1994-06-28; verification status: official publication text verified; Date-proof source ID: PA-007-USPTO-PDF; Date-proof pinpoint citation: off...	raw: 03af6e17304d9dbe6568517d20b796d7dc305d94577a09a2e81db1fe643fae17; normalized: ab0b0d55b5c01383be0...	language: Not established; translation: not required
PA-007-SEARCHABLE	preserved searchable copy cross-checked to official publication · evidence/prior art/PA-007/raw/PA-007-SEARCHABLE.bin	public date: Not established; retrieved at: 2026-07-25T19:42:48Z	Publication No.: US5324948A; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 1994-06-28; verification status: official publication text verified; Date-proof source ID: PA-007-USPTO-PDF; Date-proof pinpoint citation: off...	raw: 843dbf59e0efc70c4a9bcb5787f55b2509b717a069da81cbdd2fd9b4b6ded3a7; normalized: ab0b0d55b5c01383be0...	language: Not established; translation: not required

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PA-008-USPTO-PDF	USPTO Patent Public Search image service · evidence/prior art/PA-008/raw/PA-008-USPTO-PDF.pdf	public date: Not established; retrieved at: 2026-07-25T19:42:48Z	Publication No.: US5613261A; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 1997-03-25; verification status: official publication text verified; Date-proof source ID: PA-008-USPTO-PDF; Date-proof pinpoint citation: off...	raw: 196d445de89e3a831065787a520d7a033c1217edb201989660ab45f1a7787ce9; normalized: 1f2ae82c55da8106290...	language: Not established; translation: not required
PA-008-SEARCHABLE	preserved searchable copy cross-checked to official publication · evidence/prior art/PA-008/raw/PA-008-SEARCHABLE.bin	public date: Not established; retrieved at: 2026-07-25T19:42:49Z	Publication No.: US5613261A; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 1997-03-25; verification status: official publication text verified; Date-proof source ID: PA-008-USPTO-PDF; Date-proof pinpoint citation: off...	raw: 758ba566e85c5ca0a0f8530665520cfb323fd628ca13c0559287261855559f38; normalized: 1f2ae82c55da8106290...	language: Not established; translation: not required
PA-009-USPTO-PDF	USPTO Patent Public Search image service · evidence/prior art/PA-009/raw/PA-009-USPTO-PDF.pdf	public date: Not established; retrieved at: 2026-07-25T19:42:50Z	Publication No.: US5402051A; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 1995-03-28; verification status: official publication text verified; Date-proof source ID: PA-009-USPTO-PDF; Date-proof pinpoint citation: off...	raw: 31d277362c4ac543f180d1251ff028a7a4ffb d10972af4b45f781d3c1dd325b8; normalized: 1d9bd133be0e63fa403...	language: Not established; translation: not required

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PA-009-SEARCHABLE	preserved searchable copy cross-checked to official publication · evidence/prior art/PA-009/raw/PA-009-SEARCHABLE.bin	public date: Not established; retrieved at: 2026-07-25T19:43:33Z	Publication No.: US5402051A; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 1995-03-28; verification status: official publication text verified; Date-proof source ID: PA-009-USPTO-PDF; Date-proof pinpoint citation: off...	raw: 9eef73454f0badc873942c8b840252b9c33f8c66ec8e08e028de9b970e665196; normalized: 1d9bd133be0e63fa403...	language: Not established; translation: not required
PA-010-USPTO-PDF	USPTO Patent Public Search image service · evidence/prior art/PA-010/raw/PA-010-USPTO-PDF.pdf	public date: Not established; retrieved at: 2026-07-25T19:43:34Z	Publication No.: US5548511A; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 1996-08-20; verification status: official publication text verified; Date-proof source ID: PA-010-USPTO-PDF; Date-proof pinpoint citation: off...	raw: 260d456fd82da3d2ab00c3de8c8707f8fc6809b4ed517411e5a7646fb31de439; normalized: e32232b09ffbacc3958...	language: Not established; translation: not required
PA-010-SEARCHABLE	preserved searchable copy cross-checked to official publication · evidence/prior art/PA-010/raw/PA-010-SEARCHABLE.bin	public date: Not established; retrieved at: 2026-07-25T19:43:54Z	Publication No.: US5548511A; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 1996-08-20; verification status: official publication text verified; Date-proof source ID: PA-010-USPTO-PDF; Date-proof pinpoint citation: off...	raw: e00c616c14783dcd2ab18e391c4dde4c6059302f9f9b22f6d7f0ec3ab04296ab; normalized: e32232b09ffbacc3958...	language: Not established; translation: not required

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PA-011-USPTO-PDF	USPTO Patent Public Search image service · evidence/prior art/PA-011/raw/PA-011-USPTO-PDF.pdf	public date: Not established; retrieved at: 2026-07-25T19:43:56Z	Publication No.: US6370453B2; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 2002-04-09; verification status: official publication text verified; Date-proof source ID: PA-011-USPTO-PDF; Date-proof pinpoint citation: of...	raw: e5b02091cbbb1540c1df82f277fd0223e81b3f28eae37c137ad973a78074a09; normalized: b5bebe9f76ead1a9ee a...	language: Not established; translation: not required
PA-011-SEARCHABLE	preserved searchable copy cross-checked to official publication · evidence/prior art/PA-011/raw/PA-011-SEARCHABLE.bin	public date: Not established; retrieved at: 2026-07-25T19:45:23Z	Publication No.: US6370453B2; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 2002-04-09; verification status: official publication text verified; Date-proof source ID: PA-011-USPTO-PDF; Date-proof pinpoint citation: of...	raw: 44ec0669bbd1337f3da9d88aba1ddb24d7ecea6792951afa0a209573f99a0786; normalized: b5bebe9f76ead1a9ee a...	language: Not established; translation: not required
PA-012-USPTO-PDF	USPTO Patent Public Search image service · evidence/prior art/PA-012/raw/PA-012-USPTO-PDF.pdf	public date: Not established; retrieved at: 2026-07-25T19:45:24Z	Publication No.: US6124694A; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 2000-09-26; verification status: official publication text verified; Date-proof source ID: PA-012-USPTO-PDF; Date-proof pinpoint citation: off...	raw: e762a4b0b627e23750d8eb33109a7170c17531cc2e85c4816f9f3b7dc8873fb4; normalized: 0858e5aed9e921a3fcb...	language: Not established; translation: not required

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PA-012-SEARCHABLE	preserved searchable copy cross-checked to official publication · evidence/prior art/PA-012/raw/PA-012-SEARCHABLE.bin	public date: Not established; retrieved at: 2026-07-25T19:45:42Z	Publication No.: US6124694A; full-text coverage: raw source: Completed; official source: Completed; text segmentation: Completed; Date proof: Completed; Date proof: date type: publication date; asserted date: 2000-09-26; verification status: official publication text verified; Date-proof source ID: PA-012-USPTO-PDF; Date-proof pinpoint citation: off...	raw: 38331304642b0f7c53715e2e23bad16f94e5f176a2ceb385dcb3316f0f4c3b95; normalized: 0858e5aed9e921a3fcb...	language: Not established; translation: not required