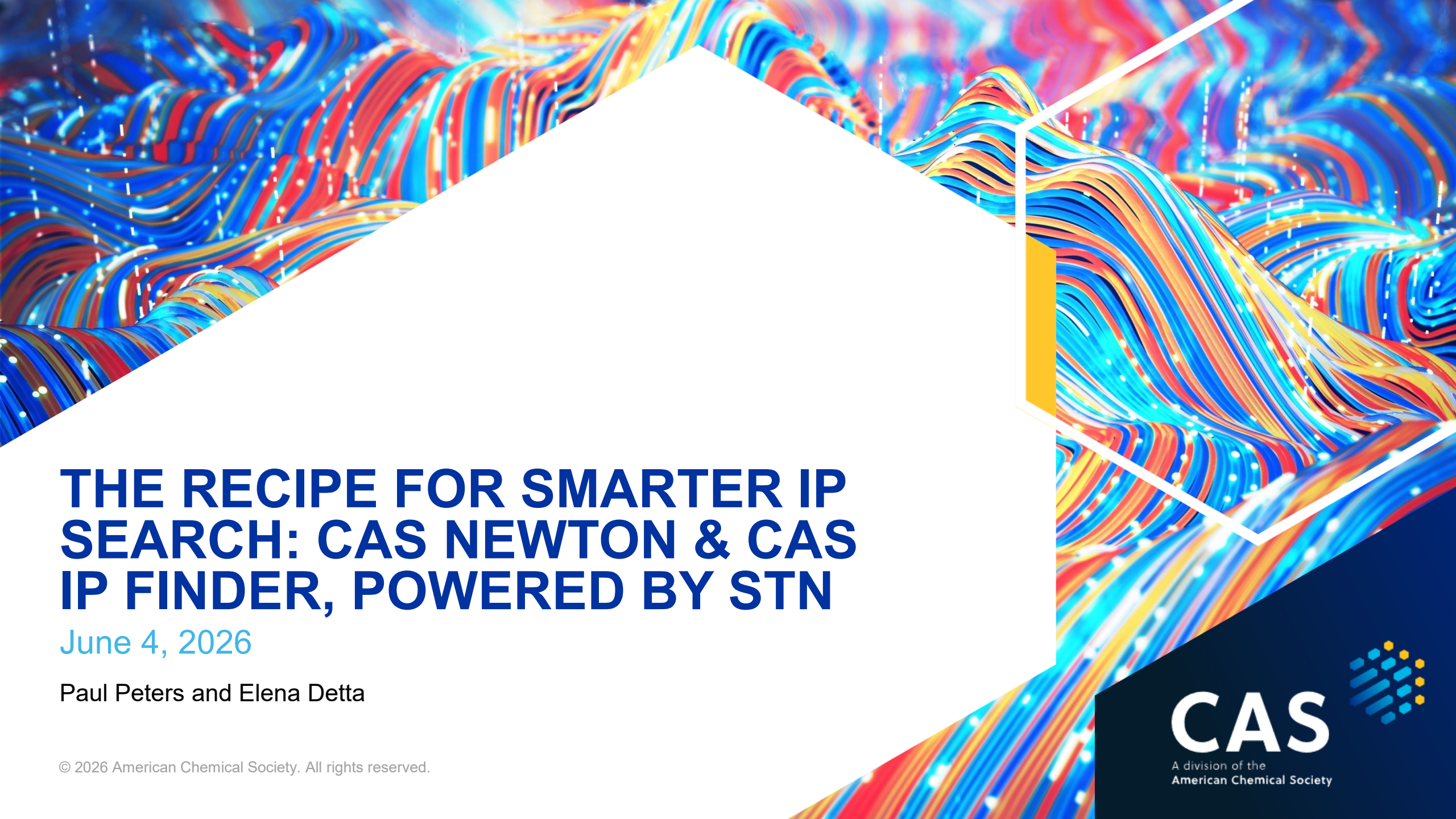




THE RECIPE FOR SMARTER IP SEARCH: CAS NEWTON & CAS IP FINDER, POWERED BY STN

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Agenda

What are we learning today?

- ❑ CAS Newton, Science-Smart Agentic AI
- ❑ Exploratory Search, AI-enabled solution for prior art searches
- ❑ Query builder structure search in CAS IP Finder

CAS Newton for CAS IP Finder

Find exactly what matters, faster

CAS Newton transforms patent and IP searching with intuitive, conversational AI that understands your intent and delivers relevant insights.

- ❑ Precision search using natural language
- ❑ AI-driven suggestions for relevant content
- ❑ Smarter search strategies and next-step guidance
- ❑ Reliable, relevant results with lower risk of inaccurate information

The image displays two screenshots of the CAS IP Finder interface. The top screenshot shows the 'CAS Newton' conversational AI interface. It features a search bar with the query 'find patents on sodium ion batteries from the past two years'. Below the search bar are three suggested search topics: 'What databases would support research on microplastics detection and removal in wastewater treatment systems?', 'Search for compounds being repurposed to treat multidrug-resistant TB.', and 'Identify the leading organizations patenting aquatic pesticides in the last 5 years.' The bottom screenshot shows the 'CAS IP Finder' interface. It displays a search result for 'Sodium ion battery patents' with a list of patent entries. The interface includes a sidebar with navigation options like 'New Question', 'Find patents on sodium ion battery...', and 'Show Command Line Panel'. The main content area shows a list of patent entries with details such as 'PATENT NO.', 'KIND', 'DATE', 'APPLICATION NO.', and 'DATE'. The interface also includes a 'Help' button and a 'My Files' section.

What are good use cases for CAS Newton?

Approach for IP Finder is different than CAS Newton in SciFinder

- ❑ CAS Newton in IP Finder is not designed to take over the task of searching, but to help you get better at navigating the content and search options in CAS IP Finder
- ❑ Identify useful databases in CAS IP Finder
- ❑ Navigate the search fields and display formats available
- ❑ Work out an effective search strategies
- ❑ The LLM is trained on the database documentation and a growing collection of expert documentation sources

CAS Newton: Use Case 1

Illustrating how CAS Newton for CAS IP Finder works today

Search strategy suggestion

What databases do you recommend to search for patents describing compositions and methods for the preparation of gluten-free dough products, such as bread, focaccia and pizza?

Can you indicate an effective strategy to search for those compositions, extracting relevant classification codes (IPC) and recurring keywords/controlled terms?

CAS Newton: Use Case 2

Illustrating how CAS Newton for CAS IP Finder works today

Navigation of search and display fields

Have there been any major changes in the Italian food industry over the past three years, such as mergers, acquisitions, divestments, or significant layoffs?

Corporate changes evaluation

When conducting the search, please include not only the term 'food,' but also synonyms such as dairy, chocolate, confectionery, and nutrition.

CAS Newton: Use Case 3

Illustrating how CAS Newton for CAS IP Finder works today

Technological crossover in patent searches

What is the scope and extent of existing patent coverage for smart packaging materials designed to detect food spoilage?

White space

Based on current patent coverage, are there freshness indicators for plant-based products?

Exploratory Search in CAS IP Finder

Supporting effective Prior Art searches

Hello, Elena

Keyword Search Structure Search **Exploratory Search**

Exploratory Search uses CAS machine learning tools to find similar patents and non-patent literature results. [Learn more](#)

Enter at least 200 characters of natural English text, e.g. claims or abstract text, relating to the research.

Priority Date: 05/28/2026 [Edit](#)

Additional Criteria to Emphasize

Structures Like This

[Draw New](#) [Select Existing](#)

Search Details

Your Inputs

Text

A coffee machine comprising a coffee grinder, a brewing cylinder movable along a direction of translation and presenting a brewing chamber configured to receive a charge of ground coffee dispense...

[View More](#)

Priority Date (MM/DD/YYYY)

05/28/2026

Suggested Key Terms

Select key terms and click Search to see results emphasizing your selections.

- ☐ coffee machine
- ☐ coffee grinder
- ☐ ground coffee charge present
- ☐ ground coffee charge
- ☐ ground coffee
- ☐ brewing cylinder movable

Results for "A coffee machine comprising a coffee grinder, a brewing cylind..."

Patents (93) Non-Patent Literature (83) Sort: Relevancy

☐ Download Results

☐ 1

Method for producing a coffee beverage

US20160366905A1 | Priority Date: 2015-06-22 | Publication Date: 2016-12-22 | Assignee: Melitta Professional Coffee Solutions Gmbh & Co. KG

...using ground coffee in a brewing chamber of a coffee machine including a control unit and a brewing cylinder housing a movably arranged piston having a piston drive for providing a changeable volume for the brewing chamber. An amount of ground coffee is filled into the brewing chamber. Water...

☐ 2

Method for operating a fully automatic coffee machine and fully automatic coffee machine

US20240298664A1 | Priority Date: 2021-01-20 | Publication Date: 2024-09-12 | Assignee: Melitta Professional Coffee Solutions Gmbh & Co. KG

...a coffee machine that has a brewing unit with a brewing chamber and a plunger which is movable in the brewing chamber and is intended for setting a brewing-chamber volume. The brewing chamber is filled with ground coffee and water is fed into the brewing chamber for the...

[Search](#)

Exploratory Search: Use Case

Illustrating how IP Finder performs Prior Art Analysis

(19) United States	
(12) Patent Application Publication	(10) Pub. No.: US 2026/0114661 A1
EVANGELISTI et al.	(43) Pub. Date: Apr. 30, 2026
(54) COFFEE MACHINE AND METHOD OF CALCULATING THE GRINDING TIME OF A COFFEE GRINDER INCORPORATED IN SAID COFFEE MACHINE	Publication Classification
(71) Applicant: DE' LONGHI APPLIANCES S.r.l. , Treviso (IT)	(51) Int. Cl. <i>A47J 31/52</i> (2006.01) <i>A23F 5/26</i> (2006.01) <i>A47J 31/36</i> (2006.01) <i>A47J 31/42</i> (2006.01)
(72) Inventors: Paolo EVANGELISTI , Treviso (IT); Davide BONOTTO , Treviso (IT); Alberto ACCIARI , Treviso (IT); Nicola PIOVAN , Treviso (IT)	(52) U.S. Cl. CPC <i>A47J 31/5255</i> (2018.08); <i>A23F 5/262</i> (2013.01); <i>A47J 31/3619</i> (2013.01); <i>A47J</i> <i>31/42</i> (2013.01)
(73) Assignee: DE' LONGHI APPLIANCES S.r.l. , Treviso (IT)	(57) ABSTRACT
(21) Appl. No.: 19/121,391	A coffee machine includes a coffee grinder for coffee, a brewing cylinder movable along a direction of translation, and a brewing chamber. The coffee machine also includes an ejection piston is housed in said brewing cylinder in a sliding manner along the direction of translation, a closing piston of the brewing chamber, and a controller having in its memory an algorithm for calculating the grinding time of the grinder. The controller is programmed to calculate the weight of a dried spent coffee ground charge from the measured value of its height, feed the calculation algorithm with the calculated value of the weight, and update the grinding time of the grinder for a subsequent dispensing cycle.
(22) PCT Filed: Oct. 17, 2023	
(86) PCT No.: PCT/EP2023/078767	
§ 371 (c)(1), (2) Date: Apr. 15, 2025	
(30) Foreign Application Priority Data	
Oct. 27, 2022 (IT) 102022000022194	

Question: What is the state of the art in coffee machine technologies, particularly in coffee grinding systems?

Solution in IP Finder? Claim 1 of De'Longhi patent to run an Exploratory Search in IP Finder.

Query builder structure search in CAS IP Finder

Intuitive Query Builder for building structure searches and finding related documents

Structure Editor

Maximize view ☐ OFF

Click and drag to select objects. Ctrl-click to select or deselect individual objects.

Molecular Formula: C₁₄H₁₂O₃ (228.25)

Zoom: 100%

Upload Save As Cancel

View Previous Structures...

Structure search: Use Case

Illustrating how IP Finder support structure searching workflows

Structure Editor

Click and drag to select objects. Ctrl-click to select or deselect

Molecular Formula: Formula is not available

R2

Zoom: 100%

Upload Save As Cancel

R-Group Definitions

R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 >

R2: H, Me, Cy

Atoms

H																	He
Li	Be									B	C	N	O	F	Ne		
Na	Mg									Al	Si	P	S	Cl	Ar		
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
Cs	Ba	*	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
Fr	Ra	**															
*Lanthanides		La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	
**Actinides		Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr	
Isotopes		D	T														

> Variables

> Shortcuts

Question: Are there derivatives of resveratrol used as dietary supplements?

Solution in IP Finder:

- 1) Perform a structural search to identify derivatives of resveratrol.
- 2) Identify literature references mentioning their use as dietary supplements.

Connections that matter

Do you want to know more?

Are you interested in this opportunity?:

All AIDB members in good standing who are not yet users of CAS IP Finder™ and CAS NewtonSM are eligible for a **10% discount of the subscription standard licence contract term fee**, applicable to contracts starting in 2026 for the first 12 months of the contract term only. Qualifying members will also receive one **complimentary introductory patent search** or landscape engagement through CAS IP ServicesSM as part of their onboarding. Both benefits are offered at the discretion of CAS and CAS IP Services and are subject to change.

Contact the CAS Account manager for Intellectual Property solutions in Italy:



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