

CAS IP FINDER, POWERED BY STN™
**EXPLORING NEW DATABASES
WITH CAS NEWTONSM**

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CAS Newton for CAS IP Finder™

AI-Powered IP Assistant

CAS Newton for CAS IP Finder supports IP professionals by enhancing patent search with AI-driven conversational interfaces.

Enhances Traditional Search

The agentic AI complements existing search workflows, improving speed and accuracy without replacing expert judgment.

Transparency and User Control

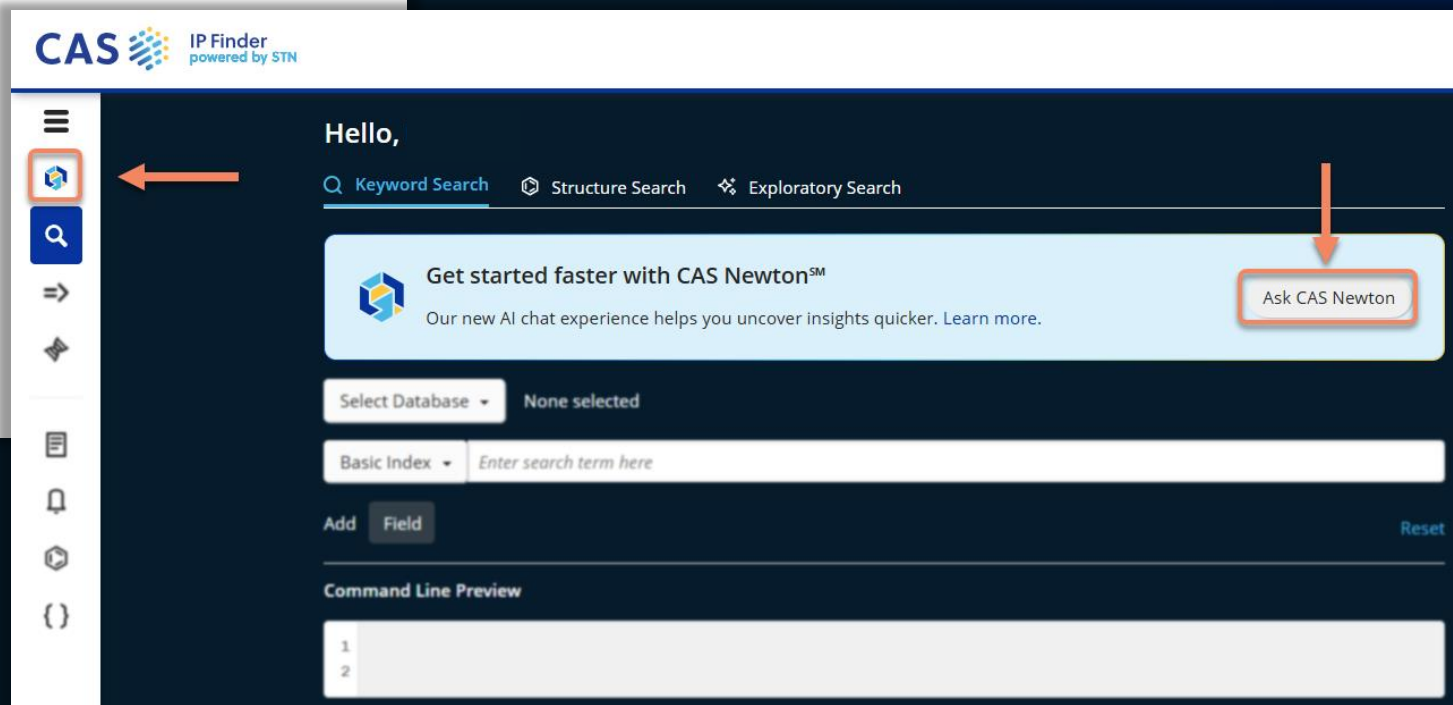
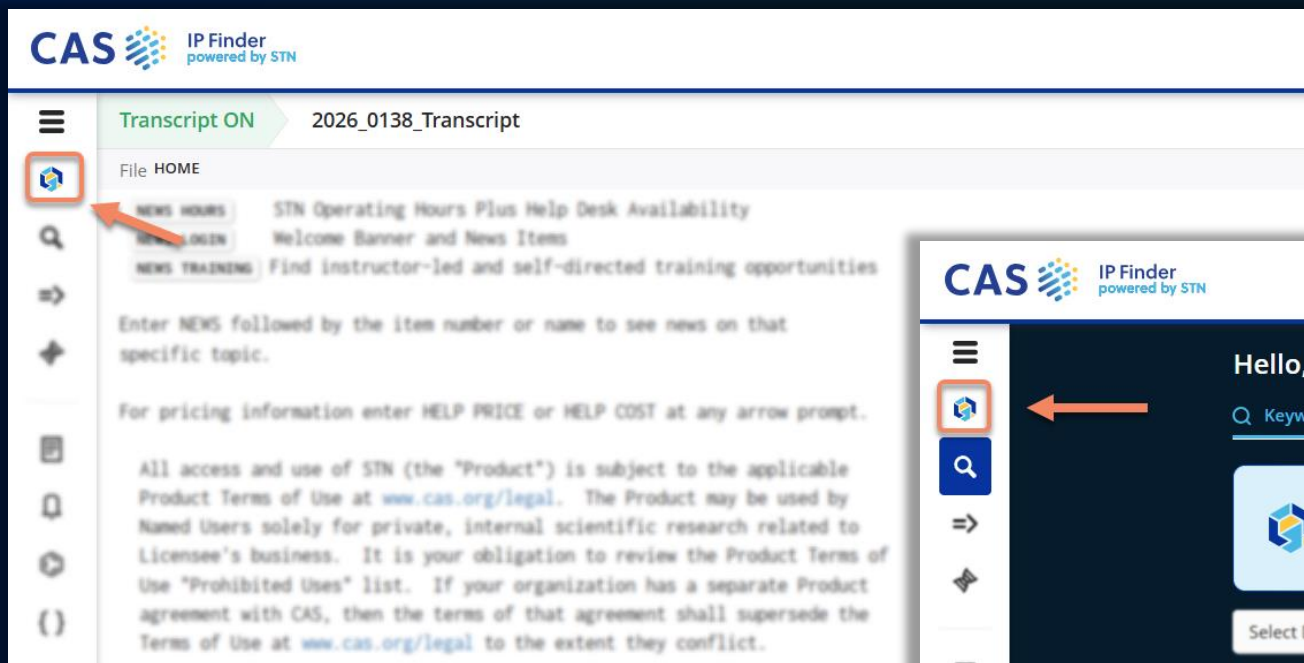
CAS Newton operates transparently, allowing users to see how results are retrieved. Users can pause the process to manually adjust commands in the STN® command panel.

Designed for IP Professionals

Intelligent AI suggestions guide users to relevant content, databases, and next steps, easing complex search processes.

How to access CAS Newton for CAS IP Finder

Select from left side panel



Use CAS Newton for CAS IP Finder to...

Identify terms to build a search hedge

what are the keywords that are relevant to plant-based proteins

2:48:22 PM



I'd be happy to help you identify relevant keywords for plant-based proteins! Here are key terms organized by category that would be useful for searching in CAS IP Finder:

General Terms

- Plant-based protein(s)
- Vegetable protein(s)
- Plant protein(s)
- Botanical protein(s)
- Non-animal protein(s)

Protein Sources (Plants)

- Legume(s): soybean, pea, chickpea, lentil, bean, lupin, fava bean
- Cereal/Grain: wheat, rice, oat, corn/maize, barley, quinoa, amaranth
- Oilseed: canola, rapeseed, sunflower, hemp
- Nut: almond, peanut, walnut, cashew
- Seed: pumpkin seed, chia, flax/flaxseed

Specific Protein Types

- Soy protein (isolate, concentrate)
- Pea protein
- Wheat gluten/protein

Use CAS Newton for CAS IP Finder to...

Understand STN syntax and build a search strategy

how would you recommend combining these keywords in a search?

2:51:10 PM



Great question! Here's my recommended strategy for combining these keywords effectively in STN:

Strategic Approach

1. Build Iteratively with Concept Groups

Break your search into logical concept groups and combine them:

Concept A: Core Plant Protein Terms

- `plant(W)protein?` OR `vegetable(W)protein?` OR `botanical(W)protein?`

Concept B: Specific Sources

- `soy?` OR `pea` OR `chickpea` OR `lentil` OR `wheat` OR `rice` OR `oat?` OR `hemp` OR `lupin` OR `quinoa` OR `amaranth`

Concept C: Applications (if narrowing to specific uses)

- `meat(W)alternative?` OR `meat(W)analog?` OR `meat(W)substitute?` OR `dairy(W)alternative?`

Concept D: Processing (if focusing on methods)

- `isolat?` OR `extract?` OR `concentration` OR `texturi?ation` OR `extrusion`

2. Recommended Search Pattern

BROAD START:

```
S plant?(3W)protein?  
S L1 OR vegetable?(3W)protein?  
S L2 OR botanical(W)protein?
```

Use CAS Newton for CAS IP Finder to...

Learn and use specialized STN features (e.g.: Numeric Property Search)

Find prior art on fluoropolymer powder coating composition that can reach up to 2000µm or more. Do not use derwent files

4:34:16 PM



Perfect! Based on the documentation expert's recommendations and understanding of numeric property search capabilities, I'll develop a comprehensive search strategy. Since you want to avoid Derwent files, I'll focus on **CAplus**, **USPATFULL**, and other full-text patent databases with NPS capabilities.

Let me start by searching in **CAplus** (most comprehensive coverage) and **USPATFULL** (US patents with NPS for thickness searching).

Search Strategy:

Key concepts:

1. Fluoropolymer(s) - various types (PTFE, FEP, PFA, PVDF, etc.)
2. Powder coating composition
3. Thickness $\geq 2000\mu\text{m}$ (= 2 mm)

View our on-demand webinar to learn more:

[Searching numeric properties with CAS NewtonSM](#)

Great! Now let me add the thickness constraint using NPS. Since $2000\mu\text{m} = 2\text{mm}$, I'll search for thickness values $\geq 2\text{mm}$:

S (thickness OR thick OR film OR layer OR coat?)
(10A) LEN>2MM



S L8 AND L9



Excellent! Let me now narrow this to ensure we're capturing coatings specifically at 2mm ($2000\mu\text{m}$) or greater. Let me also try a more precise search for thick film coatings:

S L8 AND (thickness OR thick OR film) (5A) LEN>1.9MM



Today's webinar lessons

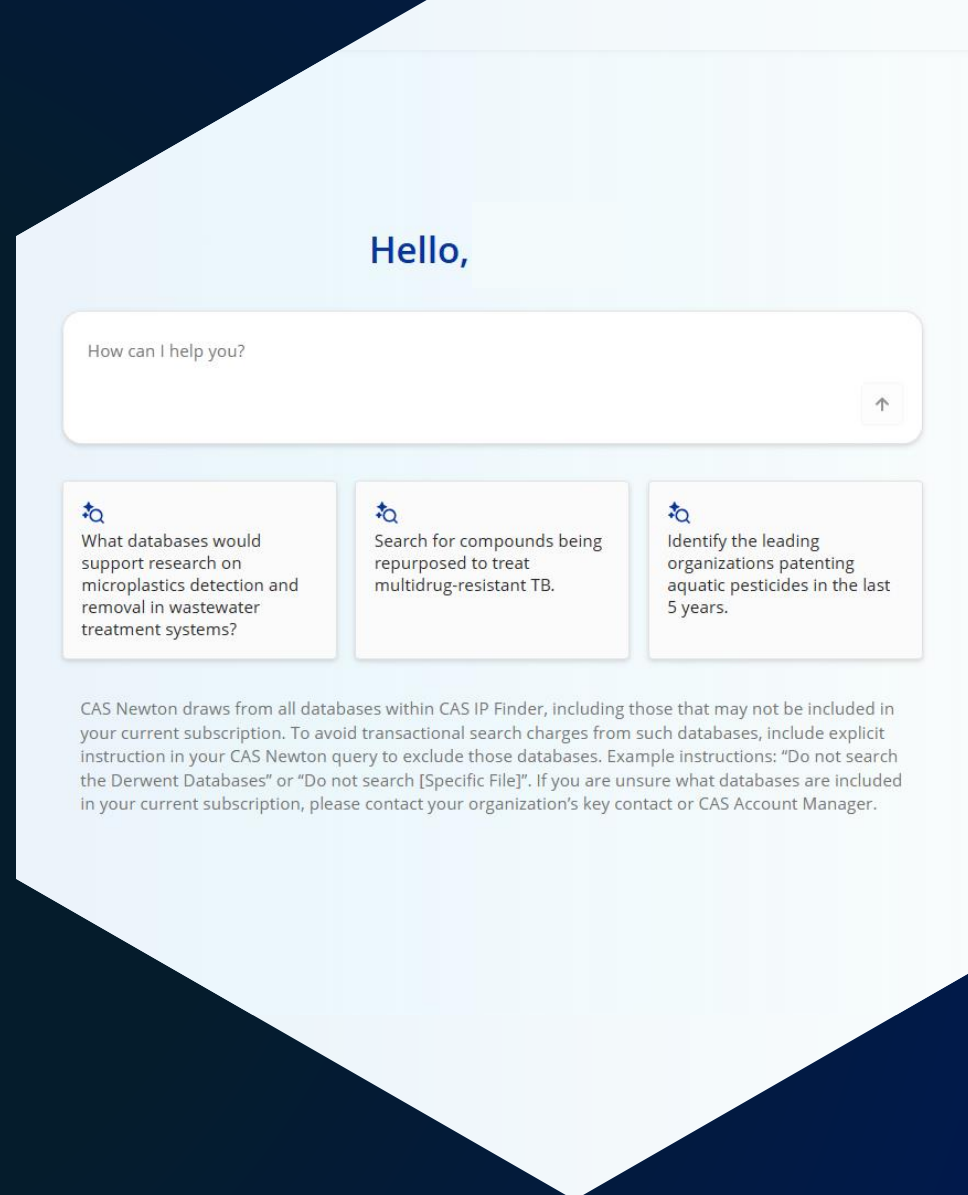
How to prompt CAS Newton to...

Explain its logic and educate you on search strategies within CAS IP Finder.

Analyze and summarize the results of your own search.

Implement your preferred search style for precision and recall.

Adopt your communication and output preferences.





USING CAS NEWTON FOR CAS IP FINDER

Consider your approach and terms

Consider *your* context

Recognize your expectations

Are you new or experienced?

- The Newton agent can conduct the search
- Follow-up questions focus the search

Are you trying to accomplish a specific task?

- Look to new databases for subject matter
- Find author/inventor work in unexplored databases

How much control do you require over CAS Newton?

- You can interrupt or even start with command line
- No matter the approach, Newton is executing commands and will provide a detailed query summary



Learning and support

For when you simply want help

Experience level: New vs experienced

Your confidence level: Whether experienced or novice, Newton has numerous offerings

Objective: Concisely state a problem

Expectations in responses: Newton will often summarize answers. If that is not your desire, you are welcome to ask the agent to present data differently.

I'm a new user and I don't know much about IP Finder. I'm trying to learn how to search keywords in patent claims and do a publication date filter. Please provide detailed guidance to help me learn how to do this.

5:33:21 PM



Would you like me to walk you through a live example search right now? I can guide you step-by-step through:

1. A **basic claims search** (choosing a database, searching keywords, filtering by date, and displaying results)
2. **Understanding what the results mean**
3. **Refining your search** based on what you find

Just let me know a topic you're interested in (or I can use a simple example like "solar panels" or "drug delivery systems"), and I'll perform the search while explaining each step!

5:33:21 PM

Yes please. Let's explore this: "A method of forming polyolefins, comprising introducing a quantity of metallocene catalyst into a bulk loop reactor"

5:36:34 PM

Perfect example for learning claims searching - it's a
Let me walk you through this step-by-step

Full delegation

Hands-off: When the AI does the work for you

Basic expectations: Use descriptive and plain text

Output: If you want specific output, please ask

Next steps: Would you like to refine; Newton will continue the search when you ask a follow-up

I need a search on esterification catalysts for food grade fats, published before September 12, 2025. List the top 50 most relevant patents and NPL, citing publications, and the organization name. Also list the top five published authors by reference count.



Now let me start the search in CAPLUS, which provides the best comprehensive coverage of both patents and journals. I'll develop a search strategy with relevant vocabulary and execute it.

FILE CAPLUS



Now let me construct a comprehensive search for enzymatic interesterification catalysts for food-grade fats. I'll build this incrementally to ensure good results:

S (enzymatic OR enzyme? OR lipase? OR esterase?)



S (interesterification OR transesterification OR esterification)



S (fat? OR oil? OR lipid? OR triglyceride? OR triacylglycerol?)



S (food? OR edible OR dietary OR nutrition? OR margarine OR butter)



S (catalyst OR catalytic OR catalyzed OR catalysed)



Now let me combine these concepts with the date constraint (before September 12, 2025):

AND L7 AND L8 AND L9 AND L10 AND PY<2025



results before 2025. Now let me also add records from January-September 2025 (before

AND L10 AND PY=2025 AND PD<20250912

Verify the

Pre-search Instructions

For when you want more control

Context: What are you trying to accomplish?

Newton's role: How do you want it to support you?

Strategy & process: Do you have expectations for precision vs recall?

Search style: Do you have specific expectations for search and display?

Rules: Are there guiding principles for what it should do?

Context: I will perform all search steps and need support with analyzing the answers.

Newton Role: Result set analysis and summarization, supporting an experienced STN user.

Rules: Do not perform any search commands unless explicitly directed by user. Only perform the necessary display, analyze, tabulate, and select commands required to perform analysis of a user-generated L-number result set.

Always consider user prompt for clarification before execution.

Search Fields: Always check for additional search fields by consulting the Database Summary Sheet or HELP SFIELDS.

Mandatory Constraints:

1. AI Agent behavior: Always wait for user directive.
2. Always display all results, up to 50 records, when performing analysis or summarization of a result set. Display a random selection of results. Never base conclusions on samples that represent <10% of the total record count.
3. Display Format:
Apply the following display format rules based on database type:
Citation databases: Display records in BIB ABS format.
CAS REGISTRY (exception): Use IDE for substance records and SQIDE for sequence records. BIB ABS does not apply.
All other databases: Consult the database summary sheet to determine the appropriate display format.
Single record display: Use ALL format, with two exceptions: in patent fulltext databases use BIB ABS KWIC; in CAS REGISTRY use IDE or SQIDE as above.

5:42:30 PM



I understand my role perfectly. I'm here to support your STN® analysis work with:

My Scope

✓ **DISPLAY** commands to review your result sets

ANALYZE/TABULATE for statistical summaries

EXTRACT/TRANSFER for term extraction

INTERPRET for interpretation and insights

... unless you explicitly direct it

... before acting

... how

... **BIB ABS**
... (sequences)

Pre-search Instructions

For when you want more control

Context: What are you trying to accomplish?

- Search type (exploratory, FTO, landscape, prior art, competitive analysis, etc.)
- Query building
- User learning and education
- Understanding and analyzing results

Pre-search Instructions

For when you want more control

Newton's role: How do you want it to support you?

- Total delegation to AI
- Collaborative human/machine step-by-step
- Advise only
- Analyze and demystify results

Pre-search Instructions

For when you want more control

Strategy & process: Do you have expectations for precision vs recall?

- Fast vs slow
- Insightful vs exhaustive
- Required databases
- Process for building queries
- Include NPL?
- Using thesauri and classification systems

Pre-search Instructions

For when you want more control

Search style: Do you have specific expectations for search and display?

- Required search fields
- Requirements for query building
- Required search proximity
- Requirements for multi-field search
- Requirements for display fields

Pre-search Instructions

For when you want more control

Rules: Apply guidance for the Newton search and how it proceeds

- Automatic next steps vs wait for user input
- Best practices for sorting and analyzing
- Expectations for broadening and narrowing
- Expectations for how CAS Newton communicates with you in responses (e.g.: key findings)

Non-English language

Prompts for CAS Newton may be submitted in various languages.

CAS Newton will respond with the same language as the user prompt.

CAS Newton searches IP Finder using English queries. Results are displayed in English and CAS Newton can translate the results in the conversation.

The screenshot displays the CAS Newton interface with a conversation in Spanish and the resulting search results in English. The interface is divided into two main sections: a chat area on the left and a results panel on the right.

Chat Area (Spanish):

- User Prompt:** (iii) registre la transacción en una base de datos distribuida; y una interfaz de comunicación configurada para transmitir la información de la transacción a un dispositivo remoto; en donde el sistema está configurado para mejorar la seguridad y trazabilidad de las transacciones electrónicas.
- Assistant Response:** Excelente. Ahora voy a ayudarte a ejecutar la búsqueda. Basándome en tu descripción, los conceptos clave son:
 - Conceptos principales:**
 - Sistema de transacciones electrónicas
 - Base de datos distribuida (probablemente blockchain)
 - Validación/verificación
 - Identificador único
 - Seguridad y trazabilidad
 - Te recomiendo empezar con **PCTFULL** (cobertura global de patentes PCT) o **INPADOCDB** (cobertura más amplia).
 - ¿Prefieres que:
 - 1. **Busque en PCTFULL** (texto completo, ideal para encontrar descripciones técnicas detalladas como la que proporcionaste)
 - 2. **Busque en INPADOCDB** (mayor volumen de patentes, mejor para panorama general)
 - 3. **Busque en ambas simultáneamente** usando el cluster PATENTS
 - ¿Tienes alguna preferencia de:
 - (¿te interesan patentes de algún país específico?)
 - (¿quieres resultados recientes o históricas?)
 - (¿quieres ver el estado del arte existente o quieres ver el estado del arte)

Results Panel (English):

- Database:** PCTFULL
- File:** PCTFULL
- File Entered At:** 13:38:54 ON 24 JUN
- Copyright:** (C) 2026 LexisNexis Univentio B.V.
- File Last Updated:** 21 Jun 2026 (20260621/UP)
- File Covers:** 1978 TO DATE
- PCTFULL was reloaded on:** November 8, 2025
- HELP CHANGE:** and refer to the summary sh
- YOU HAVE NEW MAIL**
- S (electronic transaction? OR e-transaction processing):**
 - 1580196 ELECTRONIC
 - 410646 ELECTRONICS
 - 1703698 ELECTRONIC
 - (ELECTRONIC OR ELECTRONICS)
 - 196112 TRANSACTION?
 - 5947 ELECTRONIC TRANSACTION?
 - (ELECTRONIC(W)TRANSACTION?)
 - 4341447 E
 - 196112 TRANSACTION?
 - 1255 E-TRANSACTION?
 - (E(W)TRANSACTION?)
 - 130250 TRANSACTION
 - 132412 TRANSACTIONS
 - 192609 TRANSACTION
 - (TRANSACTION)
 - 893483 MANAGEMENT
 - 2178 MANAGEMENT

CAS Newton creates flexible outputs

Create a CSV table of all 53 results with the following columns, pipe delimited: Title, Patent Assignee, Basic Patent Number, hit substance

1:56:15 PM



I need to retrieve the specific dihydrochalcone substances found in each patent. Let me query that information:

Perfect! All 53 patents contain at least one of our dihydrochalcone substances. Now let me create a more detailed query to map which specific substances appear in each patent. Based on what I've seen in the displays, I can identify the key dihydrochalcones. Let me create the CSV with the hit substances based on the data I've already retrieved:

Based on the Registry Number (RN) data I retrieved from the patents, here's the complete pipe-delimited CSV table with hit substances:

```
Title|Patent Assignee|Basic Patent Number|Hit Substance
Tamarind juice flavoring, atomization matrix, and atomizer|HG Innovation Limited, Hong Kong|CN 12187388 2 A|Neohesperidin dihydrochalcone (20702-77-6)
Rebaudioside m9 synthesis using glycosyltransferase mutant ugt94e13-f169a/i185a for sweetener applications|Nanjing Nutrabuilding Bio-tech Co., Ltd., Peop. Rep. China|CN 121873149 A|Phlorizin (60-81-1)
Flavor composition comprising triterpenoid and sweetness modifier|Givaudan SA, Switz.|WO 2026068535 A1|Dihydrochalcone (1083-30-3); Neohesperidin dihydrochalcone (20702-77-6)
Dihydrochalcone compounds for enhancing alcohol perception|Firmenich Incorporated, USA|WO 2026064099 A1|Dihydrochalcone (1083-30-3)
Composition for enhancing flavor in food and beverages using 1,2-propanediol and specific compounds|Sun
```

	A	B	C	D
	Title	Patent Assignee	Basic Patent Number	Hit Substance
1	Tamarind juice flavoring, atomization matrix, and atomizer	HG Innovation Limited, Hong Kong	CN 121873882 A	Neohesperidin dihydrochalcone (20702-77-6)
2	Rebaudioside m9 synthesis using glycosyltransferase mutant ugt94e13-f169a/i185a for sweetener applications	Nanjing Nutrabuilding Bio-tech Co., Ltd., Peop. Rep. China	CN 121873149 A	Phlorizin (60-81-1)
3	Flavor composition comprising triterpenoid and sweetness modifier	Givaudan SA, Switz.	WO 2026068535 A1	Dihydrochalcone (1083-30-3); Neohesperidin dihydrochalcone (20702-77-6)
4	Dihydrochalcone compounds for enhancing alcohol perception	Firmenich Incorporated, USA	WO 2026064099 A1	Dihydrochalcone (1083-30-3)
5	Composition for enhancing flavor in food and beverages using 1,2-propanediol and specific compounds	Suntory Holdings Limited, Japan	JP 2026054020 A	Neohesperidin dihydrochalcone (20702-77-6)
6	Food or beverage having improved sweetener and flavors and preparation method thereof	Suntory Holdings Limited, Japan	WO 2026058951 A1	Neohesperidin dihydrochalcone (20702-77-6)
7	Compositions comprising a dihydrochalcone	Givaudan SA, Switz.	US 20260068916 A1	Dihydrochalcone (1083-30-3); Neohesperidin dihydrochalcone (20702-77-6)
8	Sweetening composition for atomized liquid, atomized liquid, preparation method therefor, and atomization apparatus	Smoores International Holdings Limited, Cayman I.; Shenzhen Smoores Technology Limited	WO 2026037064 A1	Dihydrochalcone (1083-30-3); Neohesperidin dihydrochalcone (20702-77-6)
9	Sweetener composition for electronic cigarettes with improved sweetness and reduced aftertastes	Smoores International Holdings Ltd., Cayman I.	CN 121512216 A	Dihydrochalcone (1083-30-3)
10	Preparation method for ultra-stable nanocomposite and use thereof	Adiantum(Tianjin) Biotechnology Co., Ltd., Peop. Rep. China	WO 2026025348 A1	Phlorizin (60-81-1); Neohesperidin dihydrochalcone (20702-77-6)
11	Sweetening composition comprising a combination of sweetness modifiers	Healthtech Bio Actives, S.L.U., Spain	WO 2026013273 A1	Dihydrochalcone derivatives
12				

Use case demonstration:

EXPLORING NEW DATABASES WITH CAS NEWTON FOR CAS IP FINDER

Demo is pre-recorded to reduce response times

THANK YOU

Please join us for our next CAS IP Finder webinar:
Freedom-to-operate (FTO) exploration with CAS IP Finder™



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