

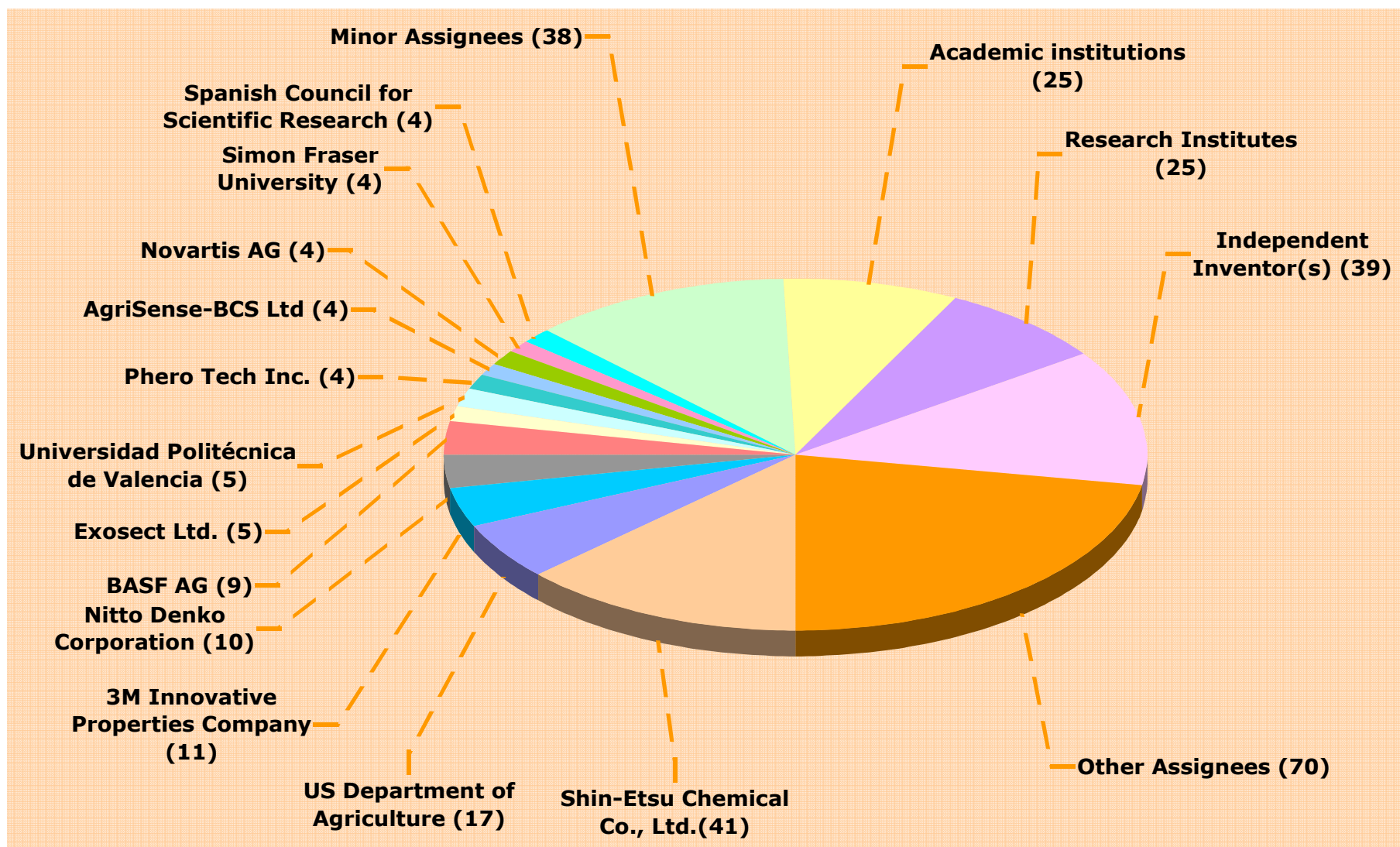
Report
On
Semiochemicals

SciTech Patent Art
Hyderabad
India



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Assignee-wise distribution of IP activity



Focus of Key players

Assignee	No. of records	Focus
Shin-Etsu Chemical Co.Ltd	41	Semiochemical composition, preparation, its encapsulation and devices for its release and its role in controlling pests
U.S. Department of Agriculture	17	Semiochemical composition, preparation its encapsulation and devices for controlling pests
3M Innovative Properties Company	11	Semiochemical composition, preparation its encapsulation and devices for its release and its stabilization
Nitto Denko Corporation	10	Semiochemical composition, preparation and devices for its release and its role in controlling pests
BASF Aktiengesellschaft	9	Semiochemical preparation and devices for its release and its role in controlling pests
Exosect Ltd.	5	Semiochemical and devices for controlling pests and its delivery
Agrisense BCS Ltd.	4	Device for control release of semiochemicals and its role in controlling pests
Phero Tech Inc.	4	Semiochemical composition, devices for its release and its role in controlling pests
Novartis AG	4	Semiochemical preparation

Distribution of IP activity: Focus of Universities

UNIVERSITY	Focus of the Patent/ Publication
UNIVERSIDAD POLITECNICA de VALENCIA	Combating insects with the help of a carrier vehicle having semiochemical
	Process for preparing an emitter for controlled and durable release of a semiochemical
	Material for emitting semiochemical substances
	Composition for the control of arthropods pests
	Attract and kill technique to control members of the tephritidae family in an ecologically and economically competitive manner
SIMON FRASER UNIVERSITY	Pheromone mixture (as a racemate or biologically active stereoisomers) used for monitoring/ mating disruption of swede midge
	Method of attracting and trapping male Hessian flies using pheromone
	Pest trap comprising glass or plastics material coated with electrostatically charged powder and pheromones
	Process for the production of the beetle aggregation pheromone brevicomin
MCMASTER UNIVERSITY	Method to disrupt the mating patterns of, or to detect the presence of, a midge
	Identification of semiochemicals that are useful for termite monitoring and control.

Distribution of IP activity: Focus of Research Institutes

Research Institute	No. of Records	Focus of patents
Supreme Council of Scientific Research (CSIC)	4	Combating insects with the help of a carrier vehicle having semiochemical, process for preparing an emitter for controlled and durable release of a semiochemical, material for emitting semiochemical substances and composition for the control of arthropods pests
Commonwealth Scientific and Industrial Research Organization	2	Process for the manufacture of cis-8-dodecen-1-ol acetate and synthetic pheromone composition for controlling codling moth
National Institute of Agricultural Research (France)	2	Process for the stereo-selective preparation of sexual pheromones and anti-oviposition pheromone composition

Research Collaborations*

Collaborators	Focus of the Patent/Publication
Csic-consejo Superior de Investigaciones Cientificas; Universidad Politecnica de Valencia	Process for preparing an emitter for controlled and durable release of a semiochemical
	Material for emitting semiochemical substances
Nitto Denko Corp.; Oct Co Ltd.	An adhesive insect trapping housing
Endura SPA; Sipcarn S P A	Controlling release rate of microencapsulated active ingredients
Norin Suisansyo Sanshi Konchu Nogyo Gijutsu Kenkyu, Fuji Flavor KK	Prevention of the breeding and extermination of ICHIMONJI bug with an pheromone
	Sexual induction agent useful for prevention of breeding and extermination
NOF Corporation; Shin-Etsu Chemical Co., Ltd.	Sustained release preparation
Norin Suisansyo Nogyo Kankyo Gijutsu Kenkyusho; Chiba Pref Gov; Shin Etsu Chem Co Ltd	Pheromone for controlling SHIBATSUTOGA
Shin-Etsu Chemical Co., Ltd.; Nisshin Kagaku Kogyo KK	Preparation of pheromones

*As determined from assignees of patents

Most cited patents

Document	Title	Year Issued	Assignee	Cited by			Avg Cites by Year
				Total	Self-citations	Others	
US5311697A	Apparatus for reducing the population of flying insects	1994	Cavanaugh Martin P. (US) Cavanaugh William P.L.	44	-	American Biophysics Corporation (4) Bugjammer, Inc (5) S.C. Johnson & Son, Inc (3)	3
US5983558A	Insect bait station and method of treating insects with toxicant	1999	Griffin Corporation	21	-	Senoret Chemical Company (3) Centers for Disease Control and Prevention (3) S.C Johnson & Son, Inc (2)	2.2
US6032406A	Insect trap device	2000	University of Southampton	19	-	Bugjammer Inc (5) Lentek International, Inc. (2) Reckitt & Benckiser (UK) Ltd. (2) Ticks or Mosquitoes LLC (2)	2.1
US5425197A	Device for trapping flying insects	1995	Rentokil Limited	27	1 (Rentokil Initial PLC)	Ecolab, Inc.(4) Cats, Inc.(3) Waterbury Companies Inc. (2)	2
US5142817A	Protective wrap for trees and other plants	1992	Lec Tec Corporation	29	6	University of Florida (7) Lee County Mosquito Control District (3)	1.8

Recent Non-patent literature

- Aerially applied verbenone-releasing laminated flakes protect *Pinus contorta* stands from attack by *Dendroctonus ponderosae* in California and Idaho
- Exploitation of the sex pheromone of apple leaf midge *Dasineura mali* Kieffer (Diptera: Cecidomyiidae) for pest monitoring: Part 1. Development of lure and trap
- Integrated pest management: the push-pull approach for controlling insect pests and weeds of cereals, and its potential for other agricultural systems including animal husbandry
- Exploitation of the sex pheromone of apple leaf midge *Dasineura mali* Kieffer (Diptera: Cecidomyiidae): Part 2. Use of sex pheromone traps for pest monitoring