

TECH SCAN

INJECTABLES IN DRUG DELIVERY



Injectables are a type of drug that is administered by injection into the body. They offer numerous advantages over other delivery methods, including rapid absorption, precise dosing, and the ability to deliver drugs that cannot be taken orally. Injectable treatments can be tailored to address a diverse range of needs, from aesthetic enhancements to chronic disease management. Many injectable provide long-lasting effects, reducing the need for frequent treatments. Injectable treatments are often quick and easy to administer, fitting seamlessly into busy schedules. As a result, injectables have become increasingly popular in the pharmaceutical industry, accounting for a significant portion of the global drug market.

The field of injectables is constantly evolving, driven by advancements in technology and a growing demand for innovative drug delivery solutions. Recent advancements include nanoparticles and micro particles that can encapsulate drugs and release them in a controlled manner, improving drug targeting and efficacy; biodegradable polymers, that can be used to create implantable drug delivery devices that release drugs over time, reducing the need for frequent injections; and smart injectables which can respond to specific stimuli, such as temperature or pH changes, to release drugs in a controlled manner. Thus, it is important to protect their intellectual property rights in this rapidly evolving field.





PATENTABLE ASPECTS OF THE TECHNOLOGY

NOVEL COMPOSITIONS

New formulations of drugs, excipients, and delivery systems

DRUG DELIVERY SYSTEMS

Novel designs of syringes, needles, and other drug delivery devices

TARGET DELIVERY MECHANISMS

Methods for selectively targeting injectable to specific cells or tissues

BIODEGRADABLE IMPLANTS

Implantable drug delivery devices that degrade over time

METHODS OF PREPARATION

Innovative processes for manufacturing Injectable

THERAPEUTIC APPLICATIONS

New uses of existing injectable drugs or new combinations of drugs

CONTROLLED RELEASE FORMULATIONS

Technologies for controlling the release rate of drugs from injectables

SMART INJECTABLES

Injectables that respond to specific stimuli

INNOVATIVE PACKAGING

Helps in stable transport of injectable

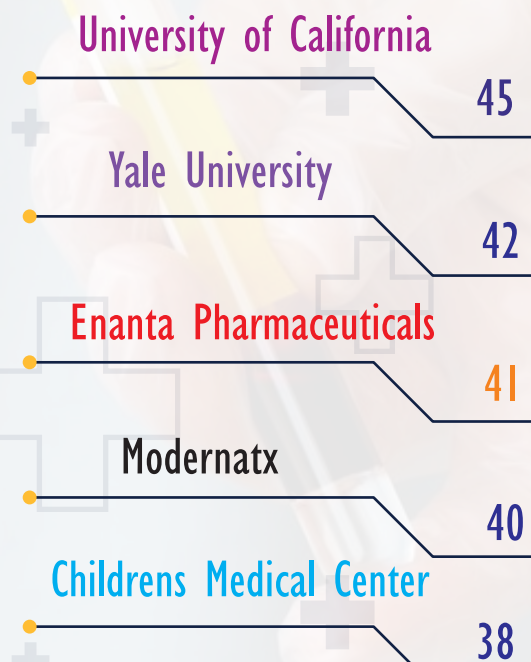
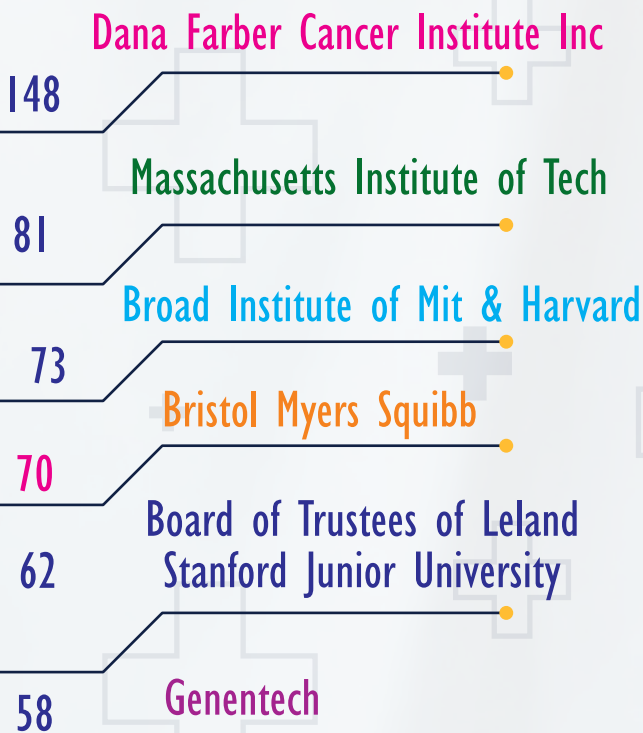


PATENT STATISTICS

The Text Below Represents Year Wise Patent Filing Trend

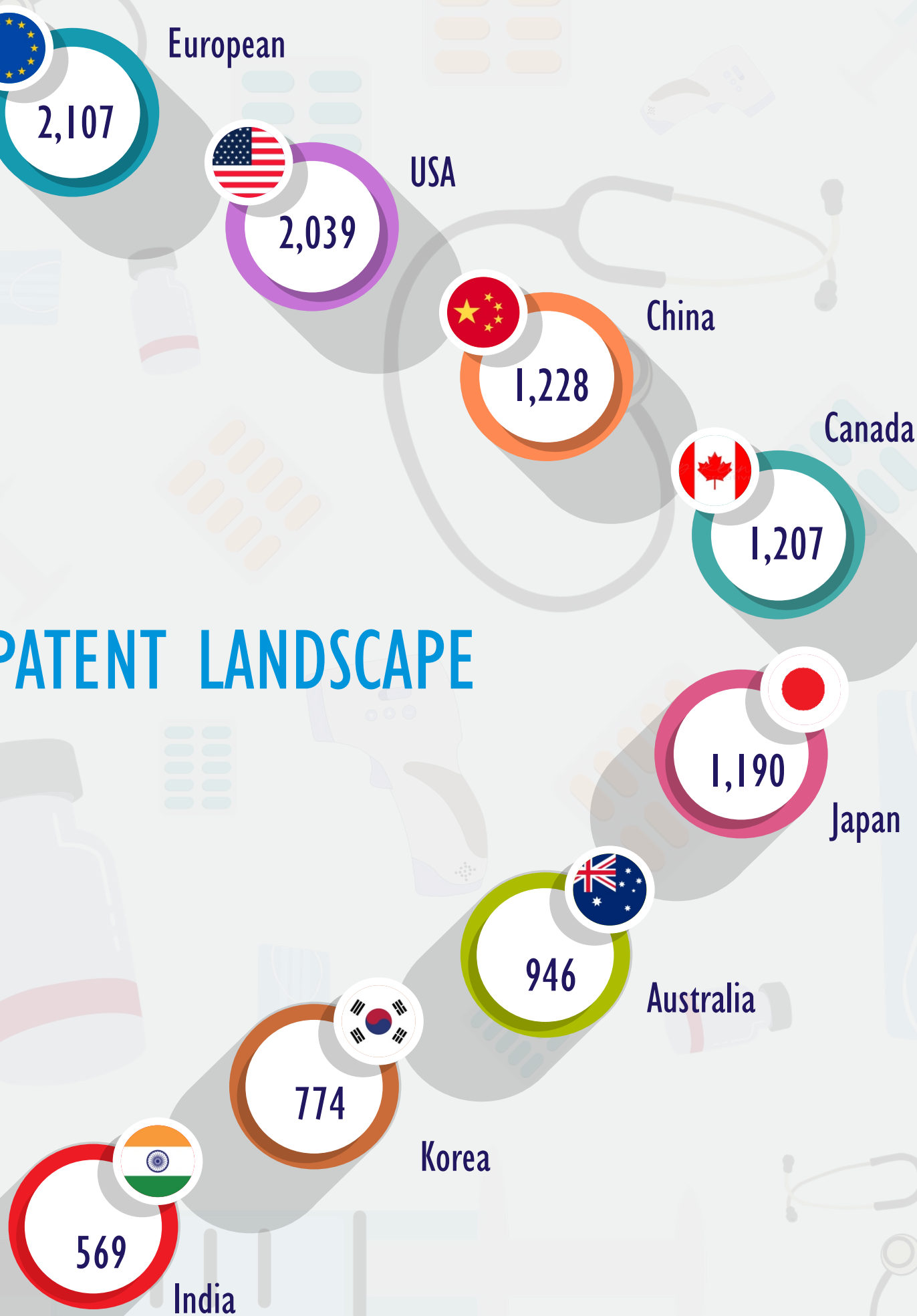


TOP APPLICANTS



Database: Questel, Orbit

PATENT LANDSCAPE



Database: Questel, Orbit

NOTABLE INVENTIONS

Patent Application	Priority Date	Title	Assignee
US11344503 B2	May 31, 2022	Cariprazine release formulations	Halo Science LLC
W02023212033	Apr 26, 2022	Extended-release formulation containing cresol	University of Maryland, Baltimore
US20230017509	Jul 6, 2021	Injectable drug delivery implant composition and method of use thereof	King Abdulaziz University
W02023278695	June 30, 2021	Injectable, biodegradable and removable polymer based drug suspension for ultra-long-acting drug delivery	The University of North Carolina at Chapel Hill
W02022119868	Dec 02, 2020	Injectable biodegradable polymeric complex for glucose-responsive insulin delivery	The Regents of the University of California
US2022/0054639 A1	Aug 24, 2020	In-situ stable injectable collagen-based hydrogels for cell and growth factor delivery	The Board of Trustees of the Leland Stanford Junior University
W02021/258062 A1	Jun 19, 2020	Endovascular Injectable Stents for Cardiovascular Drug Delivery	Massachusetts Inst Technology
W02021/257784 A1	Jun 18, 2020	Injectable Meloxicam Formulations	Verte Therapeutics LLC
W02021248109	Jun 5, 2020	Dynamically Cross-linked Injectable Hydrogels with Chemically Stabilized Multilamellar Vesicles	The Board of Trustees of the Leland Stanford Junior University
W02021011715	Jul 18, 2019	Drug Delivery System with Adjustable Injection Time and Method of use	AMGEN INC.
W02019175615	Mar 14, 2018	Dose control system for injectable-drug delivery devices and associated methods of use	Biocorp Production Sa
W02018140894	Jan 30, 2017	Norepinephrine compositions and methods therefor	Nevakar Inc

WHITESPACES

Targeted Drug Delivery

Personalised Medicine
Injectable

Response-activated
Injectable

Human-centred
Injectable

Remote Therapeutic
Monitoring

Develop Injectable
Formulations

Develop Smart Injectable
Hydrogels Responsive to
Various Stimuli
for Controlled Drug Release

Enhance Stability and
Effectiveness of Injectable
Drugs

Painless Injection
Technologies

Thermosensitive Injectable
Hydrogel for Improved
Drug Delivery

Gene Therapy and RNA
Interference-based
Treatments Delivered Through
Injectable Systems

Advancement of Drug Delivery
System Based on Nanotechnology
and Green Chemistry: Green Nano
Medicine



If you would like to learn more about any of these areas or have specific questions, we're here to provide further information and insights. Our team is dedicated to driving progress and staying at the forefront of Injectables In Drug Delivery.

About IP Bazaar

IP Bazaar is an initiative towards successful commercialization of Intellectual Property Rights. IP Bazaar is a private limited company, acts for both innovators/creators and investors; and manages the commercialisation of Intellectual Property. It operates through a wide network of association with companies, industries, industry-associations, entrepreneurs, government organization, NGOs, Universities, Venture Capitalists, overseas law firms, overseas technology transfer companies and through Patentwire.

Disclaimer

IP Bazaar has used reasonable endeavours to ensure that contents of this report were correct at the time the relevant pages were created, modified and published. IP Bazaar does not make any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the firms. The views and opinions of authors expressed herein do not necessarily state or reflect those of the firm.



© IP Bazaar 2023. All Rights Reserved.

This report is for informational purposes and is not intended to constitute legal advice.

Contact



Lalit Ambastha

Co-Founder, IP Bazaar

Mob: +91-9811367838

Email : tech@ipbazaar.com

© IP Bazaar 2023. All Rights Reserved.



IP BAZZAAR TECHNOLOGY CONSULTANTS PVT. LTD.

12, First Floor, National Park
Lajpat Nagar-4, New Delhi-110024, India
www.ipbazaar.com