



DIRECTION OF INNOVATION

World Intellectual Property Report 2022

Since Scottish engineer James Watt (1736–1819) built the First workable steam engine over 250 years ago, thereby effectively launching the First Industrial Revolution, rapid technological advances have driven ever more widespread economic growth, benefitting countries and economic stakeholders around the globe. Today, the world is at the outset of a new industrial revolution – the Fourth – based on digital technologies, such as robotics, artificial intelligence and big data.

How much and how fast countries, industries and companies invest in transforming research and development (R&D) resources, both human and financial, into new technologies will in large part determine future economic growth, standards of living and overall global welfare.

However, not all decisions on innovation – understood as commercialized new products and processes – are simple to make. At any given moment, existing technologies compete with promising new ones in terms of potential returns. The steam engine, electricity and the Internet all had viable alternatives that could have replaced them or blocked their development. In the 1800s, the “Stirling” heat engine was considered a serious rival technology to the steam engine, but not so well suited to the available raw materials and the industrial needs of the time. At the turn of the 20th century, urban lighting was mostly powered by gas. Only once electricity became generally available in the years that followed did cities start replacing gas streetlights with safer, cheaper and brighter electric lighting. In the 1980s, over a decade before email and the Internet boom, an interactive online content service known as Minitel was already being widely used in France to communicate or buy goods via a screen, keyboard and modem linked to the telephone network. Ironically, such was the commitment to what was then ground breaking technology, but which ultimately proved a dead end, that it slowed the Internet’s adoption in France compared to neighbouring economies which had developed no similar innovative system. To read full article click here <https://tinyurl.com/wipo22new>

HIGHLIGHTS

Achievements - Granted Patents

This May month SRMIST received 2 Indian patent grants. The CIAP feels proud of our faculty members and students who made this achievement possible and we congratulate every inventor who has been a part of these patents. We look forward to working with them to commercialize the patents.



Dr. Saravanakumar Ayyadurai from the **Directorate of Research** got his patent granted where his invention is a gasifier and a process for production of producer gas

Brief on Invention:

This patent aims to create a gasifier which is a small and big capsule shaped design which is stratified fixed bed gasifier model. This capsule shaped gasifier helps to minimize the voids and also accepts higher volume than the conventional gasifiers. The capsule shaped gasifier assists in effective sizing reduction and also reduces the cost drastically. This gasifier can easily be scaled-up factors with respect to length, breadth, height, air distribution ducts integration horizontally and vertically.

Dr. C. LikithKumar from the **Department of Electronics and Instrumentation Engineering** got his patent granted where his invention is a bionic writer.



Brief on Invention:

A bionic writer is a human assist device designed to help people who have disorders that prevent them from writing. The device is intended to simulate the mechanics of a human hand while writing. This writer functions similarly to a bionic arm, with dexterous movement and the ability to write letters/words communicated through a voice interface. Thus, this is an improvement over commercially available plotters and printers and will be more effective in assisting people suffering from conditions such as dyslexia, dysgraphia, arthritis, crippled limbs, and others that make writing difficult.

EVENTS

JUNE HAPPENINGS



EVENT 1:

EXPLORING THE JOURNEY OF IDEA TO COMMERCIALISATION

Date: 15th JUNE 2022
Time: 10am – 11:30am
Venue: Sir Visvesvaraya Seminar Hall (CRC Block)

EVENT 2:

PATENT SEARCH FOR RESEARCHERS

Date: 22 JUNE 2022
Time: 10am – 11am
Venue: Sir Visvesvaraya Seminar Hall (CRC Block)

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