

Technology Offers

HUNGARY

Computer-operated technology for chemical weed control on railroads

A Hungarian SME has developed a computer-operated technology for chemical weed-control on railroads. The greatest advantage of the system is that it can align the environmental interests to the economic interests of the firm implementing the spraying. The technology divides the 6.4 metres wide rail track into 7 lanes perpendicular to the rail track. It can spray out four different types of agents in optional proportions in each lane. The reaction time of the system allows a longitudinal resolution of only 1 metre.

The chemical agents that this new technology employs have a short decay-time and therefore cause less harm to the environment. This system is also suitable for traditional total spraying with any kind of chemical agent. The technology saves on the amount of chemical agents used because it employs area-selective, species-specific technologies, and because the dosage is adjusted to be proportional to the growth stage of the weed.

Areas of application

Environmental protection and chemicals manufacturing companies. The potential users of the technology are railway companies, and companies interested in chemical weed control on railroads.

Advantages

- The use of chemicals can be minimized;
- It does not let chemicals to clear surface;
- Dosage is monitored and hence, there is no overdose;
- Work can be done at night as well; and
- Complex information-processing.

Development status

Fully commercialized.

Transfer terms

Joint venture; Technical services; and Technology licensing.

Contact details

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INDIA

An analogue of Oenostacin with potent antibacterial activity

Staphylococcus aureus continues to be a major cause of community-acquired and health-care related infections in the United States and around the world. It is one of the

most successful opportunistic human gram-positive pathogen responsible for bacteraemia, pneumonia, mastitis, osteomyelitis, acute endocarditis, post-operative wound infections and deep abscesses in various organs. Biotech Consortium India Limited (BCIL) is seeking to commercialize a novel and highly effective antibacterial agent active against gram-positive bacteria. The technology, developed by the Scientists at Central Institute of Medicinal and Aromatic Plants (CIMAP) in Lucknow, also elicits marked antibacterial activity against Vancomycin-sensitive and resistant *S. aureus* and *S. epidermidis*.

The new biomolecule has been patented in the United States (US Patent No. 6,365,197). The development of the analogue of Oenostacin with potent antibacterial activity comparable to the parent molecule is a breakthrough enabling the commercial exploitation of the potent antibacterial agent without dependence on the natural plant source.

Areas of application

Pharmaceutical industry; Therapeutics; and Medical industry.

Advantages

- Potent antibacterial activity specifically against *S. aureus* and *S. epidermidis*;
- Minimum Inhibitory Concentration (MIC) value of 62.5 µg/ml against *S. epidermidis*; and
- Active against Vancomycin drug-resistant strains of *S. aureus* and *S. epidermidis*.

Development status

Commercial prototype

Legal protection

Patent

Transfer terms

Technology licensing

Contact details

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SRI LANKA

Evaluation of landslide hazard potential

As most landslides and other forms of slope failures seen today are mostly because of haphazard development and inappropriate land use practices. Most land in mountainous areas are developed today, without evaluating that land's vulnerability to slope failures. Even land in hill slopes that have low landslide potential before development, soon become highly vulnerable to slope failures during or after development due to application of inappropriate

construction techniques and land use practices. A government agency in Sri Lanka offers consultancy services for evaluating the landslide hazard potential of a site. Its team will visit the site and make a preliminary evaluation on landslide potential of the site based on the surface geological and geomorphological information. A preliminary evaluation report will be issued to the client with recommendations to minimize the hazard, if any. In addition, if necessary, the client will be directed for a detailed analysis also.

Areas of application

Sustainable development; Disaster management; Disaster mitigation; Hillside development; Safe human settlements; and Insurance.

Advantages

This service ensures the safety of the life and property of the area. The developers have the opportunity to ensure the sustainability of their development. The burden of relief and rehabilitation on the regional and national economy will be reduced.

Transfer terms

Consultancy

Contact details

National Building Research Organization, Government of Sri Lanka, 99/1 Jawatta Road, Colombo 05, Sri Lanka.

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THAILAND

Electric motorcycle

A Thai company has designed a very energy efficient motor cycle with a powerful engine. It saves on operational cost in terms of fuel. The company is interested in exploring possibilities for commercializing the technology in countries across the Asia-Pacific region.

Areas of application

Automobile industry

Advantages

- Very cost-effective; and
- High performance efficiency.

Development status

Commercial prototype

Transfer terms

Joint Venture, Equipment Supply

Contact details

Thai Summit Auto-parts Industry Co. Limited, Bangkok, Thailand. Tel: +66 (8) 1928 5393; E-mail: pramote.eam@thaisummit.co.th.

WIPO's Distance Learning Programme

The World Intellectual Property Organization (WIPO) has added five multilingual courses to the distance learning programme offered by its Worldwide Academy. The new courses will cover Arbitration and Mediation Procedure, Patents, Patent Information Search, Basics of Patent Drafting, and Trademarks.

The established range of distance learning courses offered by the Academy include: Primer on Intellectual Property; General Course on Intellectual Property; and advanced courses on Copyright and Related Rights, Electronic Commerce and Intellectual Property, and Biotechnology and Intellectual Property. Courses are offered online in seven languages (Arabic, Chinese, English, French, Portuguese, Russian and Spanish).

WIPO's distance learning programme aims to improve access to intellectual property-related educational materials. It takes full advantage of state-of-the-art information technology and the Internet as an alternative to traditional training programmes. It offers new teaching methodologies, evaluation tools, and tailored means of delivery to expanded audiences.

Teaching takes place in the virtual environment of the WIPO Academy website, where students may register for the courses. A network of tutors located in various regions of the world support students during the course. Students and teachers can interact as necessary during the course.

Communication takes place through electronic mail and discussion fora with the responsible tutors. Assignments and final examination papers are submitted to the Academy's course administrator who coordinates the continuous assessment of each student. At the end of the course, successful students are awarded a certificate to acknowledge completion of the course.

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