ಉದಯವಾಣಿ
ಜನಮನದ ಜೀವನಾಡಿ
ಮಣಿಪಾಲ । ಬೆಂಗಳೂರು । ಹುಬ್ಬಳ್ಳಿ । ಕಲಬುರಗಿ । ದಾವಣಗೆರೆ । ಮುಂಬಯಿ
Regd.No.UDP/1259/2018-20 | udayavani.com | UDAYAVANI – KANNADA DAILY – MANIPAL ಮಣಿಪಾಲ, ಬುಧವಾರ, ಜುಲೈ 18, 2018 ಬೆಲೆ: ₹ 5-00 ವಿದೇಶ ಬೆಲೆ: ₹ 6-00

ಸಹ್ಯಾದ್ರಿಯ ಆರ್‌ಡಿಎಲ್ ಟೆಕ್ನಾಲಜೀಸ್ ಆವಿಷ್ಕಾರ

ಸೆಲ್ ಫೋನ್‌ಗೆ ಪರ್ಯಾಯ 'ಲೈ- ಫೋನ್'

■ ಎಲ್‌ಇಡಿ ಬೆಳಕು ಮಾಧ್ಯಮ ■ ಶೀಘ್ರದಲ್ಲೇ ಮಾರುಕಟ್ಟೆಗೆ

ಲೈ- ಫೋನ್ ಮತ್ತು ಅದು ಕಾರ್ಯಾಚರಿಸುವ ವಿಧಾನ.

ಮಂಗಳೂರು, ಜು. 17: ಸಹ್ಯಾದ್ರಿ ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ಸಹ್ಯಾದ್ರಿ ಇನೋವೇಶನ್ ಹಬ್ ಪ್ರಾಯೋಜಿತ ತಂತ್ರಜ್ಞಾನ ತಂತ್ರಾಂಶ ಸಂಶೋಧನಾ ಸಂಸ್ಥೆ ಆರ್‌ಡಿಎಲ್ ಟೆಕ್ನಾಲಜೀಸ್ ಸೆಲ್ ಫೋನ್‌ಗೆ ಪರ್ಯಾಯವಾಗಿ 'ಲೈ- ಫೋನ್' ಎಂಬ ಆರೋಗ್ಯಸ್ನೇಹಿ ಫೋನ್ ಆವಿಷ್ಕರಿಸಿದೆ.

ಆರ್‌ಡಿಎಲ್ ಟೆಕ್ನಾಲಜೀಸ್‌ನ ಮುಖ್ಯಸ್ಥ ರಾಘವ ಶೆಟ್ಟಿ ಅವರು ಸೋಮವಾರ ಪತ್ರಿಕಾಗೋಷ್ಠಿಯಲ್ಲಿ ಈ ಕುರಿತು ಮಾಹಿತಿ ನೀಡಿದರು. ತಾಂತ್ರಿಕ ನಿರ್ದೇಶಕ ಪ್ರದೀಪ್ ಕುಮಾರ್, ಪ್ರೊಡಕ್ಷನ್ ಮ್ಯಾನೇಜರ್ ರಾಮಚಂದ್ರ ಶೆಟ್ಟಿ ಟೀಮ್ ಲೀಡರ್ ಕನ್ವಲ್ ಕರ್ಕೇರ ಉಪಸ್ಥಿತರಿದ್ದರು.

ಅಪೂರ್ವ ಆವಿಷ್ಕಾರ

ಲೈ-ಫೋನ್ ಅತ್ಯಾಧುನಿಕ ತಂತ್ರಜ್ಞಾನದ ಅತ್ಯಂತ ಸರಳ ಫೋನ್. ಸೆಲ್ ಫೋನ್‌ಗಳಲ್ಲಿ ಬಳಕೆಯಾಗುವುದು ಆರ್. ಎಫ್. ಅಥವಾ ರೇಡಿಯೋ ಫ್ರೀಕ್ವೆನ್ಸಿ ತರಂಗಗಳು. ಆದರೆ ಲೈ-ಫೋನ್ ಬಳಸುವುದು ಎಲ್‌ಇಡಿ ಬಲ್ಬ್ ಬೆಳಕನ್ನು. ಇದು ವಿಶ್ವ ಮಟ್ಟದ ಅಪೂರ್ವ ಆವಿಷ್ಕಾರ ಎಂದು ರಾಘವ ಶೆಟ್ಟಿ ವಿವರಿಸಿದರು.

ಸೆಲ್ ಫೋನ್‌ಗಳಲ್ಲಿ ಉಪಯೋಗವಾಗುವ ರೇಡಿಯೋ ಫ್ರೀಕ್ವೆನ್ಸಿಗಳು ಧ್ವನಿ, ಚಿತ್ರ ಅಥವಾ ಪಠ್ಯಗಳನ್ನು ವಿದ್ಯುತ್ ಅಥವಾ ಕಾಂತೀಯ ಸಂಕೇತಗಳನ್ನಾಗಿ ಪರಿವರ್ತಿಸಿ ಪ್ರವರ್ತಿಸುತ್ತವೆ. ಈ ಸಂಕೇತಗಳನ್ನು ಇನ್ನೊಂದು ಸೆಲ್ ಫೋನ್ ಸ್ವೀಕರಿಸಿ ಕೇಳುಗನಿಗೆ ತಲುಪಿಸುತ್ತದೆ. ಇಲ್ಲಿ ಸಂವಹನ ಮಾಧ್ಯಮ ರೇಡಿಯೋ ತರಂಗಾಂತರ. ಈ ರೇಡಿಯೋ ತರಂಗಾಂತರಗಳು ಮಾನವ ದೇಹಕ್ಕೆ ಅಪಾಯಕಾರಿ. ಇದನ್ನು ಮನಗಂಡು ಆರ್‌ಡಿಎಲ್ ಟೆಕ್ನಾಲಜೀಸ್ 'ಲೈ- ಫೋನ್' ಆವಿಷ್ಕರಿಸಿದೆ ಎಂದು ವಿವರಿಸಿದರು.

ಈ ತಂತ್ರಾಂಶಕ್ಕೆ ಈಗಾಗಲೇ ಜಾಗತಿಕ ಮಟ್ಟದಲ್ಲಿ ಪೇಟೆಂಟ್ ಲಭಿಸಿದೆ. ತಂತ್ರಜ್ಞಾನವನ್ನು ಶೀಘ್ರದಲ್ಲಿಯೇ ಸಂವಹನ ಕ್ಷೇತ್ರದ ಮಾರುಕಟ್ಟೆಯಲ್ಲೂ ಪ್ರಸರಿಸಲು ಸಂಸ್ಥೆ ಬದ್ಧವಾಗಿದೆ ಎಂದರು.

ಏನಿದು ಲೈ - ಫೋನ್ ?

ಲೈ-ಫೋನ್‌ಗೆ ಬೇಕಿರುವುದು ಎಲ್‌ಇಡಿ ಬೆಳಕು. ಈ ಬೆಳಕಿನಡಿ ಕುಳಿತು ಈ ಫೋನ್ ಬಳಸಬಹುದು. ಮೊಬೈಲ್ ಸಿಮ್ ಅನ್ನು ಸೆಲ್ಯುಲರ್ ನ ಗೇಟ್‌ವೇಗೆ ಜೋಡಿಸಿದರೆ ಸೆಲ್ ಫೋನ್‌ನ ಕರೆಗಳು, ಮೆಸೇಜ್‌ಗಳು ಲೈ-ಫೋನ್ ತೆರೆಯಲ್ಲಿ ಮೂಡುತ್ತವೆ. ಬಳಕ ಸೆಲ್ ಫೋನ್‌ನ ಎಲ್ಲ ಕೆಲಸಗಳನ್ನು ನಡೆಸಬಹುದು.

ಲೈ- ಫೋನ್‌ನಲ್ಲಿ ಆರ್‌ಎಫ್ ತರಂಗಾಂತರಗಳು ಇಲ್ಲ. ಏಕೆಂದರೆ ಆರ್‌ಡಿಎಲ್‌ನ ವಿಶೇಷ ತರಂಗಾಂತರ ಸಂಸ್ಕರಣೆಯಿಂದ ಆರ್‌ಎಫ್ ತರಂಗಗಳು ಬೆಳಕಿನ ದತ್ತಾಂಶಗಳಾಗಿ ಪರಿವರ್ತನೆಗೊಂಡು ಲೈ- ಫೋನ್ ತಲುಪುತ್ತವೆ. ಸೆಲ್ ಫೋನ್ ವಿಕಿರಣಗಳ ಯಾವ ದುಷ್ಪರಿಣಾಮಗಳೂ ಇಲ್ಲಿಲ್ಲ. ಈ ತಂತ್ರಜ್ಞಾನ ಎಲ್ಲರಿಗೂ ವರದಾನವಾಗಿದೆ ಎಂದು ರಾಘವ ಶೆಟ್ಟಿ ತಿಳಿಸಿದರು.

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THE TIMES OF INDIA

NELSON MANDELA'S BIRTHDAY

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MAYAWATI SACKS TOP BSP LEADER FOR CRITICIZING RAHUL'S FOREIGN ORIGIN 6

ACTRESS RITA BHADURI, 62, POPULAR ONSCREEN MOTHER, PASSES AWAY 6

I ERASE HATRED AND FEAR, I'M CONGRESS: RAHUL GANDHI HITS BACK AT BJP 6

Startup develops innovative Li-Phone

TIMES NEWS NETWORK

Mangaluru: A startup by students of Sahyadri College of Management and Engineering has developed Li-Phone, an innovative product which uses a light source to communicate instead of radio frequency normally used by conventional cellphones.

Li-Phone was designed and patented by RDL Technologies at Sahyadri. Raghav Shetty of the company said: "Cellphones use radio

INNOVATION IN COMMUNICATION

waves for communication. Radio waves transport digitized voice or data in the form of oscillating electric and magnetic fields called electromagnetic field (EMF). Radio waves carry information and travel in the air at the speed of light. Cellphones and other mobile devices emit radiofrequency (RF) waves, a type of non-ionizing electromagnetic radiation (commonly called cellphone radiation). When you carry a mobile device close to your head and body, you can absorb over half the transmitted RF energy."

In view of health problems involved in use of cellphones, RDL Technologies, sponsored by Sahyadri Innovation Hub, conducted research to find an alternative to RF waves. It figured out how to use light waves as the medium for communication and it's widely designed for indoor wireless communication.

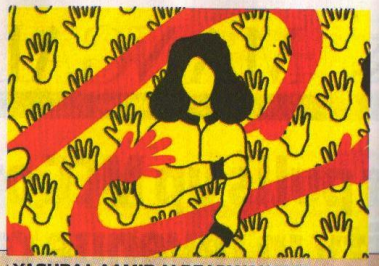
"Whether in office or home, 70% of our communication happens indoor and therefore RDL used visible light for communication instead of RF," says Raghav.

Li-Phone is a mobile device operatively coupled with a base station, which includes a first port for transmitting data through a communication medium which uses visible light or infra-red waves. The light source converts signals from the cellphone to the Li-Phone, effectively blocking RF frequency waves and protecting you from radiation. The Li-Phone provides a radiation-free environment.

Cellphone radiation

The possible health consequences of cellphone use include cancer, impaired brain and nervous functions, sperm damage, behavioural problems in children, among others. Cellphones have been blamed for lack of concentration, sleep disorders, fatigue, dizziness, heart ailments and brain cancer too. The World Health Organisation classified cellphone radiation as "possibly carcinogenic to humans".

THE NEW
INDIAN EXPRESS
MANGALURU • WEDNESDAY • JULY 18, 2018 • ₹6.00 • PAGES 16 • CITY EDITION



JUST 7 PRODUCTION HOUSES HAVE HARASSMENT PANELS

The WCD ministry had asked Bollywood production houses to set up sexual harassment internal complaints committees, but only 7 did so

B'WOOD HOUSES TO SUBMIT REPORTS

"All are obliged to follow law of the land. I urge the Bollywood production houses to do so and submit a report on the Internal Complaints Committee set up by them," Union Women and Child Development minister Maneka Gandhi said. All firms with more than 10 employees must have such a committee | P9

YASHRAJ, AAMIR ALREADY HAVE IT

- Yashraj Films, Aamir Khan Production, Mukta Arts, Excel Entertainment, Phantom Films, T-Series and Drishyam Films have already complied, according to the ministry
- Last year, 24 production houses were told to set up panels in accordance with the Sexual Harassment at Workplace Act, 2013

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EXPRESS READ

Residential faculty development programme

Mangaluru: A seven-day All India Council for Technical Education (AICTE) sponsored Residential Faculty Development Programme (FDP) for "Student Induction" commenced on the Sahyadri campus. The programme from July 16-22, was chaired by AICTE representative Mohan Das and resource persons Sanjeev Ghopra and Sivasankar Kanthethi. A total of 40 faculty members from various engineering colleges of Karnataka are undergoing the faculty development programme on Sahyadri campus. The All India Council for Technical Education is the statutory body and a national-level council for technical education, under Department of Higher Education, Ministry of Human Resource Development.

DH

DECCAN HERALD

Mangaluru, Wednesday July 18, 2018

Pages 20 Vol 21 No 198 ₹ 6.00 M: www.deccanherald.com

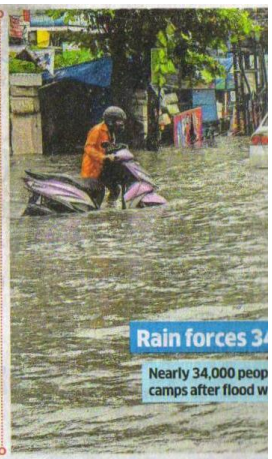
Usain Bolt may play football in Australia

- **Sprint legend** Usain Bolt poised for **surprise trial** with Aussie club
- On the verge of sealing a deal to trial with **A-League's Central Coast Mariners**

Chasing a dream

- **Eight-time Olympic champion Bolt**, who retired from athletics after August's World Championships in London, has long dreamt of playing top-flight football
- To take part in 6-week trial **starting next month**. Season-long deal to follow if it goes well

Page 14



Rain forces 3

Nearly 34,000 peop camps after flood w

Sahyadri Innovation Hub designs Li-Phone

MANGALURU, DHNS: The Sahyadri Innovation Hub, has conceptualised and designed a Li-Phone, which uses light source instead of radio waves, and is patented by RDL Technologies, at Sahyadri College of Engineering, Mangaluru.

Addressing reporters here on Monday, RDL Technologies Founder Director and CEO Raghavendra G Shetty said that Li-Phone is simply a phone with a difference, but with highly advanced technology. It uses a light source to communicate instead of the radio frequency used by normal cell phones.

"Exposure to cell phone radiation have aroused considerable public attention and scientific debate on health issues. The World Health Organization classified cell phone radiation as "possibly carcinogenic to humans," he added.

In view of the health issues involved in the usage of cell phones, RDL Technologies, sponsored by Sahyadri Innovation Hub, took up the exhaustive research work to find an alternative for RF waves. With a highly talented team of engineers, headed by Raghav Shetty, RDL made a breakthrough after a decade of painstaking research in cell phone technology using a light source, effectively nullifying the health hazard of normal cell phones.

The Li-Phone

Technology

"Cell phones use radio waves to communicate. Radio waves transport digitised voice or data in the form of oscillating electric and magnetic fields called the electromagnetic field (EMF). Radio waves carry the information and travel in the air at the speed of light. Cell phones and other mobile devices emit radiofrequency (RF) waves, a type of non-ionising electromagnetic radiation (commonly called "cell phone radiation"). When you hold or carry a mobile device close to your head and body, you can absorb over half of the transmitted RF energy," he said.

Li-Phone is a mobile device operatively coupled with a base station, which includes a first port for transmitting first data through a communication medium which uses visible light (LED) or Infrared based communication medium. This medium will be a light source. This light source converts the signals from cell phone to the Li-Phone effectively blocking the RF frequency waves. The Li-Phone provides a secure, radiation-free environment, safeguarding humans particularly children from hazardous RF radiation effects.

Li-Phone is a result of high-tech research work, yet it is simple and user-friendly. One just has to keep their mobiles at a secured place or at a corner of their house or office. Switch on the LED light, couple their Li-Phone with their cell phone and start working. It also saves mobile battery while delivering speedy and secure communication. It's sleek and comfortable to handle, he added.

This is a Startup India project by RDL Technologies at Sahyadri Innovation Hub, at Sahyadri College of Engineering, Mangaluru.