

(54) Title of the invention : A SYSTEM FOR WAVELENGTH DETERMINER

(51) International classification :G01J0003020000, G01J0003120000, A61B0003100000, A61F0009008000, G01J0003100000

(86) International Application No :NA  
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
 Filing Date :NA

(62) Divisional to Application Number :NA  
 Filing Date :NA

(71)Name of Applicant :  
**1)Chitkara University**  
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Patiala -----

**2)Bluest Mettle Solutions Private Limited**  
**Name of Applicant : NA**  
**Address of Applicant : NA**

(72)Name of Inventor :  
**1)MISHRA, Rahul**  
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

**2)PANDEY, Sakshi**  
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

**3)MANTRI, Archana**  
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :  
 The invention is a system (200) for determining the wavelength of light consists of a dispersive element (204), such as a grating or prism, responsible for separating the different wavelengths of a light beam. It is complemented by one or more position-sensitive detectors (208), which detect the positions of the separated wavelengths. A computer processing system (210) then processes the position data to determine the corresponding wavelengths of the light beam. Additionally, a light source (202) generates the light beam to be analyzed. This comprehensive system enables precise wavelength determination, making it valuable for a range of scientific, industrial, and research applications. The dispersive element's versatility allows for wavelength separation, while the position-sensitive detectors and the computer processing system ensure accurate calculations of the wavelengths, facilitating detailed analysis and measurement of light properties.

No. of Pages : 23 No. of Claims : 10