New Pearlescent Pearl pigment

Substrate-free colored plate-like particles



Conventional pearl pigments were created by coating mica substrates with metal oxides, such as ${\rm TiO_2}$. The traditional production process involved two main steps: preparation of the mica substrate and coating with metal oxides. This conventional method made it challenging to control the thickness of the metal oxide layer precisely, making it difficult to achieve stable pearlescent properties and control the hue. As a result, the process was often costly.

This patent introduces a method for producing pearl pigments that exhibit pearlescent properties through a simple and cost-effective process. The pigments comprise vanadium phosphate hydrates and possesses a substrate-free colored plate-like particles. It is possible to provide a strong glossy effect using the pigment with large particle sizes.

Product Application

- Pearlescent pearl pigments (cosmetics, etc.)
- Automotive paints
- Gas sensing materials

IP Data

IP No. : Jp2024-100285

Inventor : S. YIM, Q. CHENG, Y.XUE, T.HASEGAWA, A.OKAWA

Admin No. : T24-003





1X-DOKU

echnoarch

Related Works

[1]

Contact



Download OnePager





Contact

https://www.t-technoarch.co.jp/en/contact.html





Check Out Our Inventions

https://www.t-technoarch.co.jp/en/anken.php





Follow us

https://www.linkedin.com/company/tohoku-techno-arch



Leading you to Successful Industrialization



TOHOKU TECHNO ARCH 株式会社 東北テウノアーチ