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(71) Applicants:
• **Chaozhou Three-Circle (Group) Co., Ltd.**
Chaozhou, Guangdong 515646 (CN)
• **Nanchong Three-Circle Electronics Co., Ltd.**
Nanchong, Sichuan 637100 (CN)

(72) Inventors:
• **ZHENG, Zhenhong**
Chaozhou
Guangdong 515600 (CN)

• **WANG, Zhanhui**
Chaozhou
Guangdong 515600 (CN)

(74) Representative: **Von Kreisler Selting Werner -**
Partnerschaft
von Patentanwälten und Rechtsanwälten mbB
Deichmannhaus am Dom
Bahnhofsvorplatz 1
50667 Köln (DE)

(54) **CERAMIC FERRULE**

(57) The present invention relates to a ceramic material preparation technology. The present invention also relates to optical communication technology, especially to a ceramic ferrule made of a complex Zirconium oxide base material which blends with a rare element, such as Yttrium, Cerium, etc. The ceramic ferrule made of a complex Zirconium oxide base material which blends with a rare element, such as Yttrium, Cerium, etc. provides significant features, such as increasing the phase transition resistivity of the Zirconium oxide material, having a precise construction, effectively enhancing reliability of products and having high quality connection, good

aging resistance and good environment adaptability. A movable connector of field-assembled optical fiber which adapts the present ceramic ferrule not only achieves coaxial joint of the optical fibers better surface smoothness as compared with plastic ceramic ferrule, but also overcomes the problem of scratching easily incurred during connection between plastic materials. The present invention has characters of good aging resistance, low insertion loss on jointing of optical fibers, high return loss and good connection quality.

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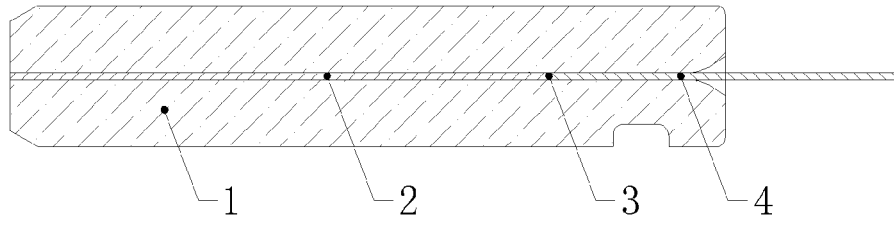


FIG. 5