

US11142838B2 Electrolytic copper foil for secondary battery, having enhanced flexural resistance, and method for producing the same

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Electrolytic copper foil for secondary battery, having enhanced flexural resistance, and method for producing the same

Abstract

The present invention relates to an electrolytic copper foil for a secondary battery, having excellent flexural resistance, and a method for producing the electrolytic copper foil. The electrolytic copper foil for a secondary battery has excellent flexural resistance even without the use of many additives in a copper electrolyte when producing a copper foil. The electrolytic copper foil for a secondary battery according to the present invention is an electrolytic copper foil for a secondary battery, which is produced from a plating solution, containing total organic carbon (TOC), cobalt and arsenic, by using a drum and is coated with a negative electrode active material, wherein the ratio between the TOC, cobalt and arsenic contained in the electrolytic copper foil follows the following formula 1: $TOC/(cobalt+arsenic)=1.30-1.55$. [Formula 1]