1145-26-1542 **DoYong Kwon*** (doyong@jnu.ac.kr), Department of Mathematics, Chonnam National University, Gwangju, 61186, South Korea. A singular function from Sturmian continued fractions. For $\alpha \ge 1$, let $s_{\alpha}(n) = \lceil \alpha n \rceil - \lceil \alpha (n-1) \rceil$. A continued fraction $C(\alpha) = [0; s_{\alpha}(1), s_{\alpha}(2), \ldots]$ is considered and analyzed. Appealing to Diophantine approximation, we investigate the differentiability of $C(\alpha)$, and then show its singularity: $C'(\alpha) = 0$ for almost every α . (Received September 23, 2018)