1145-VL-1978 Min Soo Kim* (min.soo.kim@vanderbilt.edu), 2301 Vanderbilt, Nashville, TN 37235. Results in Leibniz n-algebras from the category $U_n(Lb)$.

We study the Leibniz *n*-algebra $\mathbf{U}_n(\mathfrak{L})$, whose multiplication is defined via the bracket of a Leibniz algebra \mathfrak{L} as $[x_1, \ldots, x_n] = [x_1, [\ldots, [x_{n-2}, [x_{n-1}, x_n]] \ldots]]$. We the simplicity of $\mathbf{U}_n(\mathfrak{L})$ when \mathfrak{L} corresponds to a simple Lie algebra. An analogue of Levi's theorem for Leibniz algebras in $\mathbf{U}_n(\mathbf{Lb})$ is established and it is proven that the Leibniz *n*-kernel of $\mathbf{U}_n(\mathfrak{L})$ for any semisimple Leibniz algebra \mathfrak{L} is the *n*-algebra $\mathbf{U}_n(\mathfrak{L})$. (Received September 24, 2018)