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Proxy — W.W. GRAINGER, INC.

Proxy for Annual Meeting of Shareholders, April 25, 2018

100 Grainger Parkway, Lake Forest, Illinois 60045-5201

The undersigned hereby appoints D.G. Macpherson and John L. Howard, and each of them, proxies of the undersigned with full power of substitution to represent the undersigned and to vote all of the shares of the Common Stock of W.W. Grainger, Inc. which the undersigned is entitled to vote at the Annual Meeting of Shareholders of W.W. Grainger, Inc. to be held on April 25, 2018 at 10:00 a.m., CDT and at any and all adjournments thereof, with all the powers the undersigned would possess if personally present and voting.

A majority of proxies or substitutes who shall be present at the meeting may exercise all powers hereunder. All proxies will be voted as specified. **If no specification is made, the proxy will be voted FOR items 1, 2, and 3. The proxy holders reserve the right to cumulate votes and cast such votes in favor of the election of some or all of the applicable director nominees in their sole discretion.**

(Continued and to be voted, signed and dated on reverse side.)