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COVER Silicified productoid brachiopod Waagenoonocha abichii (Waagen) from Permian rocks of the Khisor Range, West Pakistan. The dense corona of long slender spines around the visceral disc of the ventral valve is thought to have supported and anchored the living shell in soft substrate. The shell is oriented with the ventral valve downward (about \times 3). See page 660. [Richard E. Grant, U.S. Geological Survey]