Like tree width in graphs, branch width is a central concept in matroid structure theory. When the branch width of the matroids in a class is low, questions surrounding well-quasi-ordering and efficiency of algorithms become more tractable. When the branch width of a matroid is high, different good things happen. For instance, the matroid will have the cycle matroid of a big grid as minor. We will look at another consequence of high branch width: an extension of the Splitter Theorem. (Received August 26, 2010)