A graph $G$ is *dyadic* provided it has a representation $v \rightarrow S_v$ from vertices $v$ of $G$ to subtrees $S_v$ of a host tree $T$ with maximum degree 3 such that (i) $v$ and $w$ are adjacent in $G$ if and only if $S_v$ and $S_w$ share at least three nodes and (ii) each edge of $T$ is used by exactly two representing subtrees. We show that a connected graph is dyadic if and only if it can be constructed from edges and cycles by gluing vertices to vertices and edges to edges. (Received January 05, 2019)