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(19) **United States**(12) **Patent Application Publication****Benhase et al.**(10) **Pub. No.: US 2006/0080510 A1**(43) **Pub. Date: Apr. 13, 2006**(54) **APPARATUS AND METHOD TO MANAGE A DATA CACHE**(52) **U.S. Cl. 711/136**

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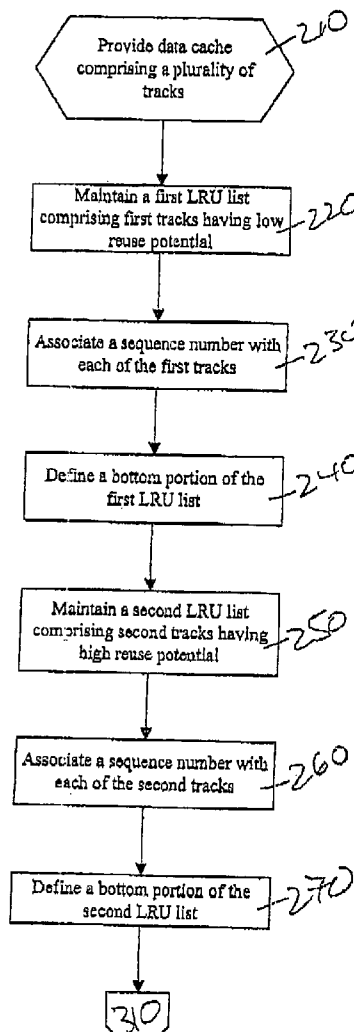
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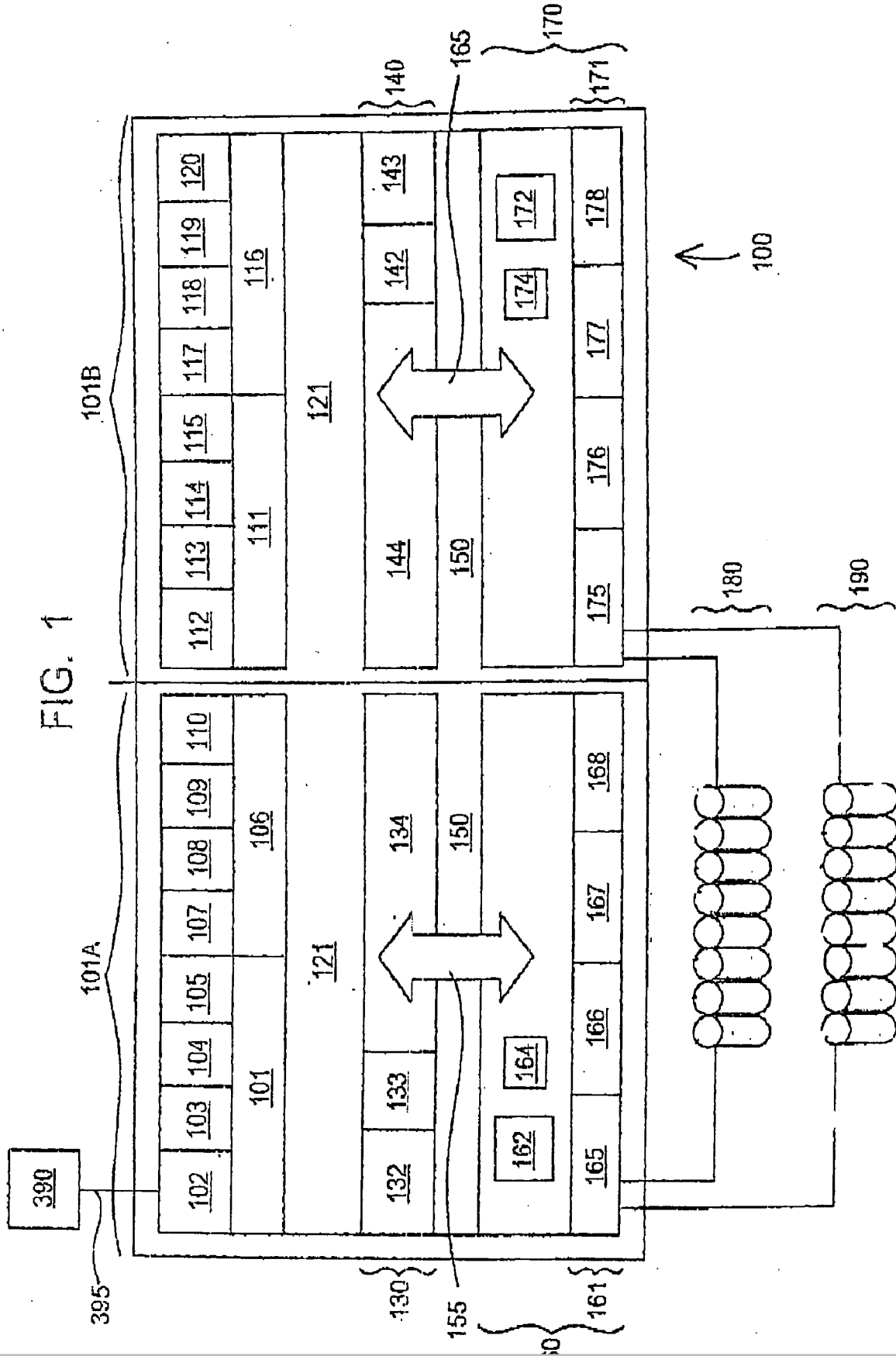
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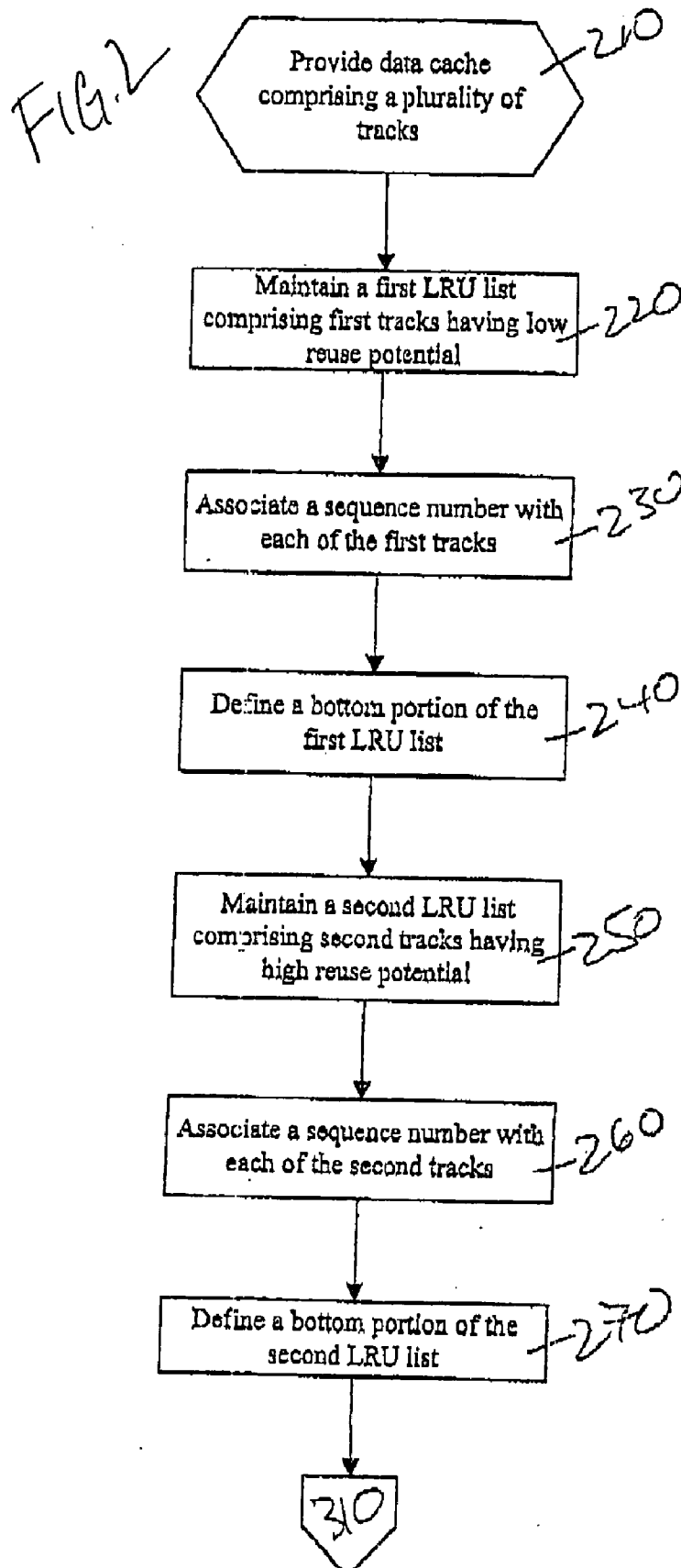
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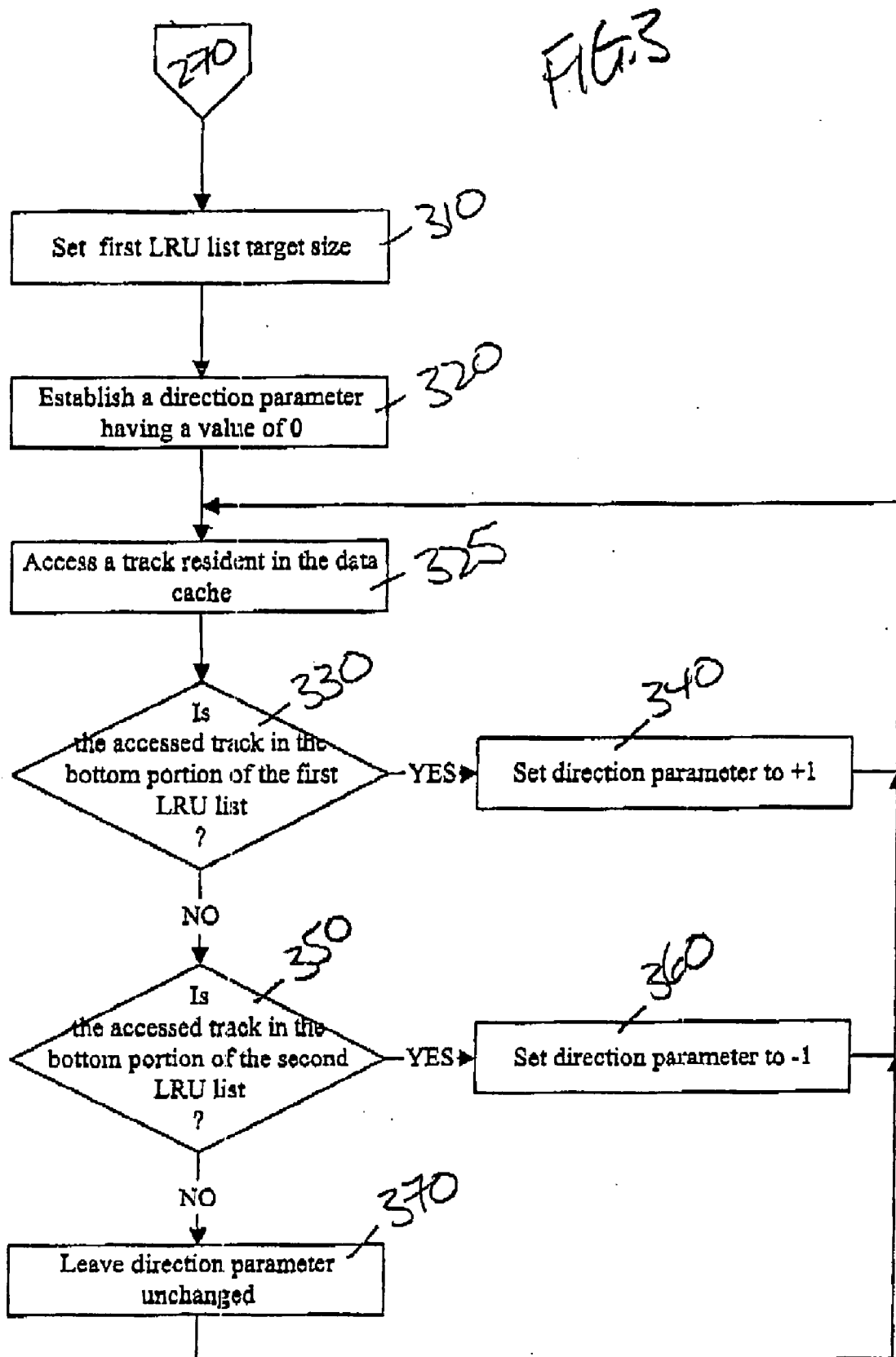
(57) **ABSTRACT**

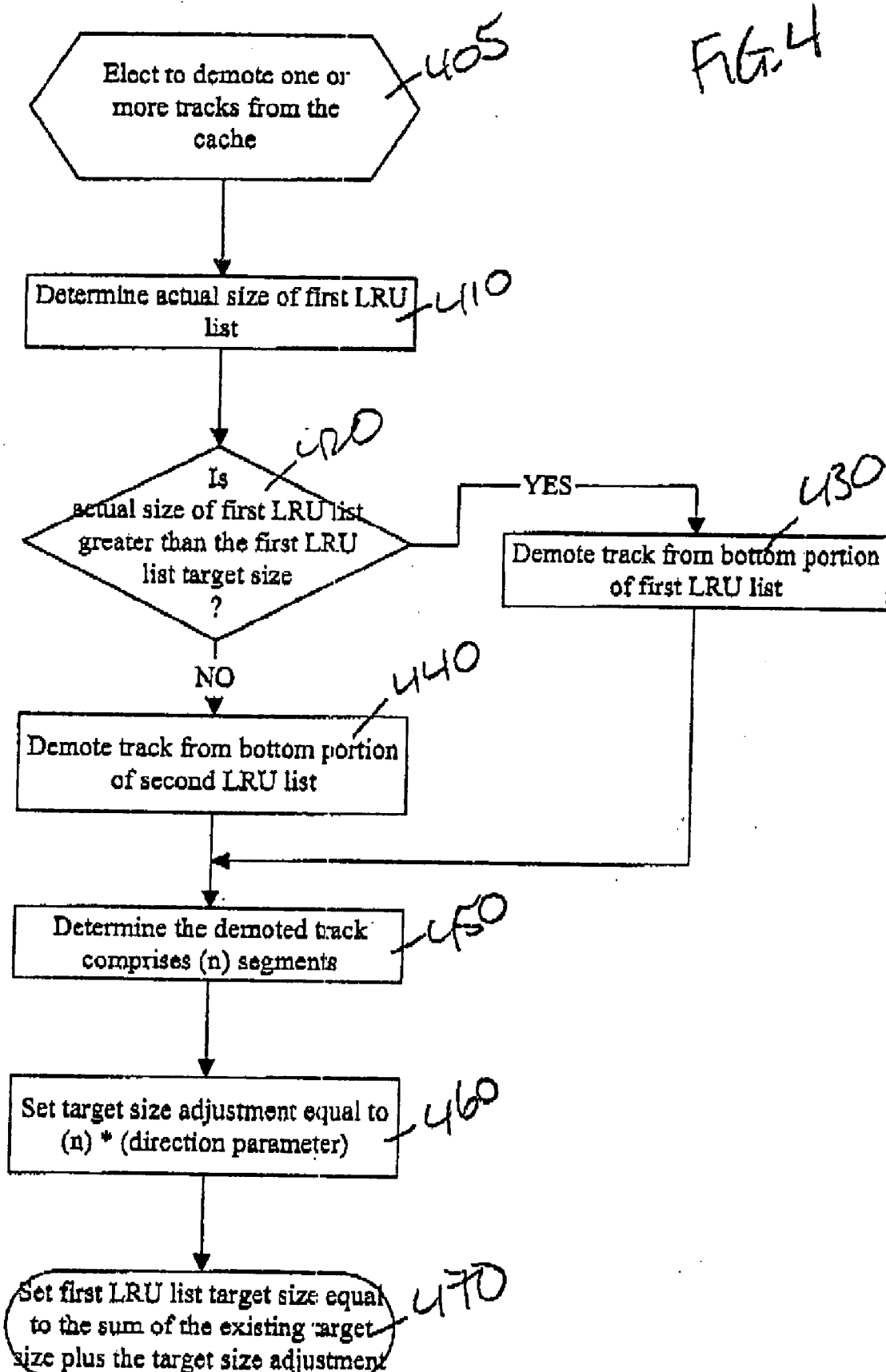
A method is disclosed to manage a data cache. The method provides a data cache comprising a plurality of tracks, where each track comprises one or more segments. The method further maintains a first LRU list comprising one or more first tracks having a low reuse potential, maintains a second LRU list comprising one or more second tracks having a high reuse potential, and sets a target size for the first LRU list. The method then accesses a track, and determines if that accessed track comprises a first track. If the method determines that the accessed track comprises a first track, then the method increases the target size for said first LRU list. Alternatively, if the method determines that the accessed track comprises a second track, then the method decreases the target size for said first LRU list. The method demotes tracks from the first LRU list if its size exceeds the target size; otherwise, the method evicts tracks from the second LRU list.











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