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(54) Title of the Invention: **Object matching for tracking, indexing, and search**  
Abstract Title: **Object matching for tracking, indexing, and search**

(57) A camera system (100) comprises an image capturing device (102), object detection module (204), object tracking module (206), and match classifier (218). The object detection module (204) receives image data and detects objects appearing in one or more of the images. The object tracking module (206) temporarily associates instances of a first object detected in a first group of the images. The first object has a first signature representing features of the first object. The match classifier (218) matches object instances by analyzing data derived front the first signature of the first object and a second signature of a second object detected in a second image. The second signature represents features of the second object derived from the second image. The match classifier (218) determine whether the second signature matches the first signature. A training process automatically configures the match classifier (218) using a set of possible object features.

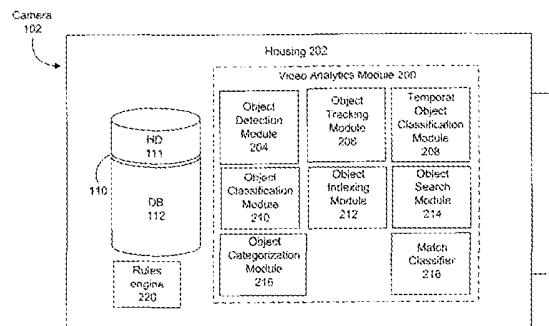


FIG. 2