

ABSTRACT**Device for classifying a scene of the environment of a vehicle**

- 5 What is proposed is a device for classifying a scene of the environment of a vehicle, comprising a classification unit that uses a neural network to classify a scene in response to a received image depicting the scene and a learning unit to train the neural network on a set of images stored in a database (3). The device comprises:
- an image preprocessing module (120) for extracting a set of thumbnails from a received
 - 10 image as a function of a criterion concerning position in the image and at least one criterion relating to an image parameter,
 - a classification module (122) for determining, for each thumbnail, a set of probabilities of belonging, each associated with a class from among a set of predefined classes, and
 - an image annotation module (124) for determining an annotation corresponding to the image
 - 15 based on the sets of probabilities determined for all of the thumbnails.

Abstract: Figure 2