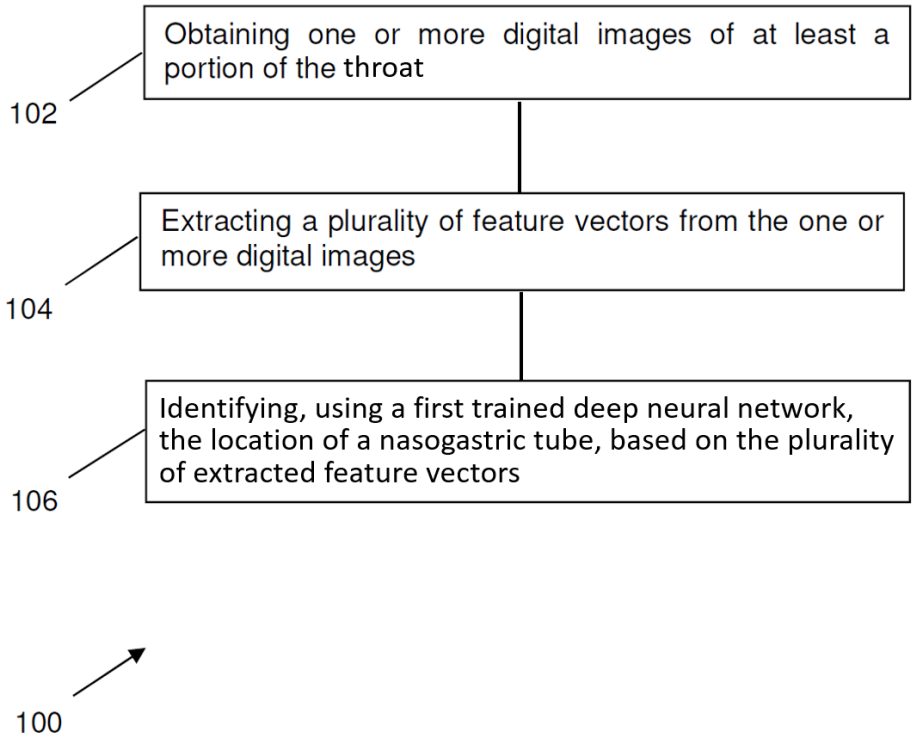

Obtaining one or more digital images of at least a portion of the throat
102
Extracting a plurality of feature vectors from the one or more digital images
104
Identifying, using a first trained deep neural network, the location of a nasogastric tube, based on the plurality of extracted feature vectors
106
100

Figure 1

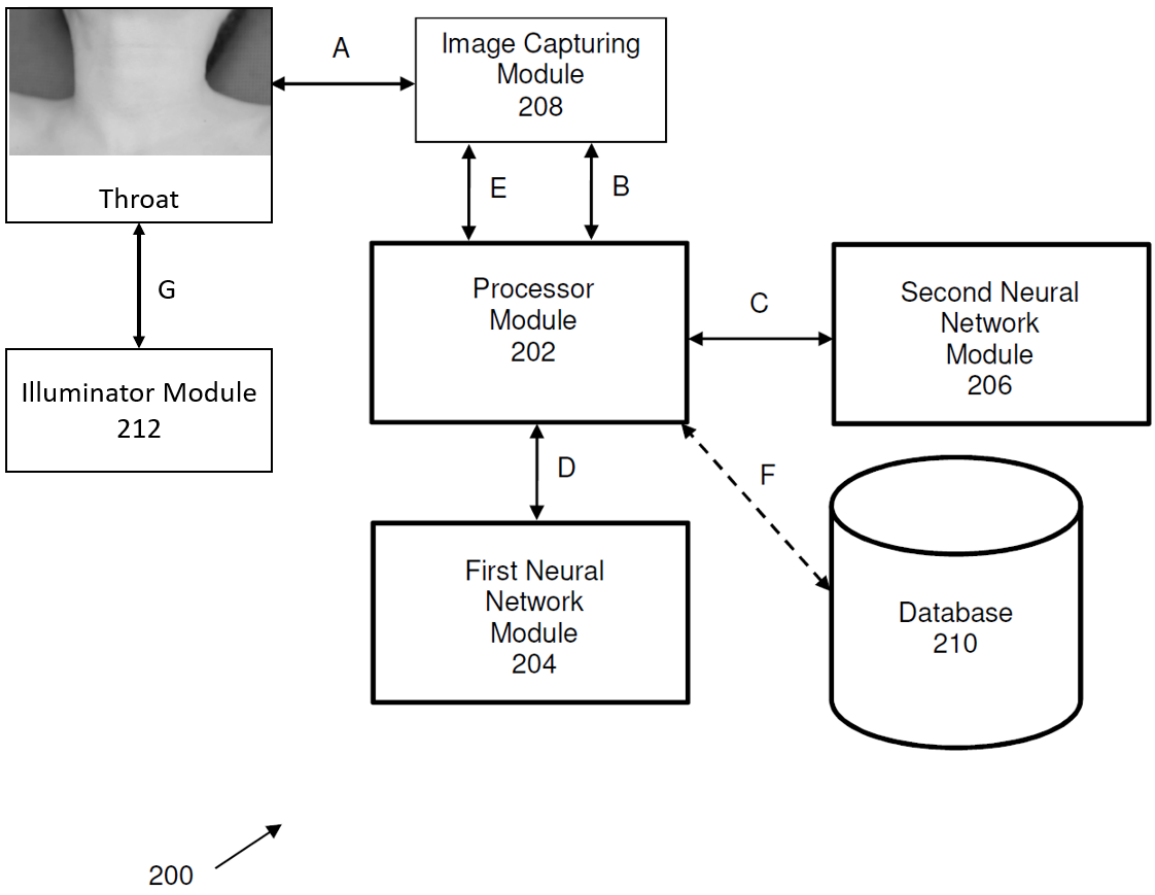

Throat
A
Image Capturing Module 208
E
B
G
Processor Module 202
C
Second Neural Network Module 206
Illuminator Module 212
D
F
First Neural Network Module 204
Database 210
200

Figure 2

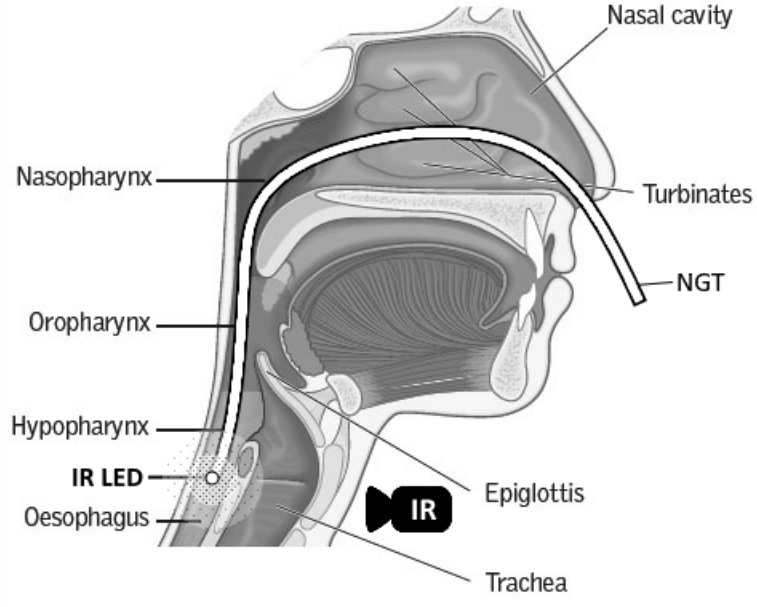


Figure 3

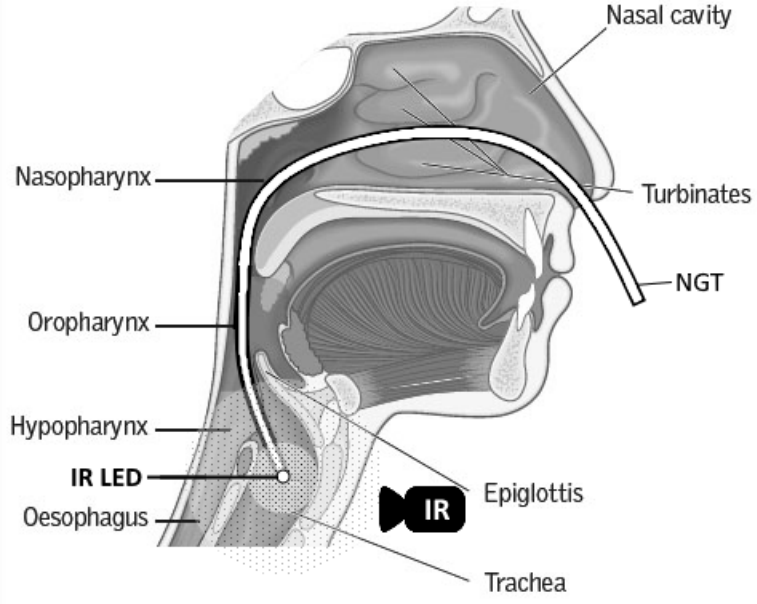


Figure 4

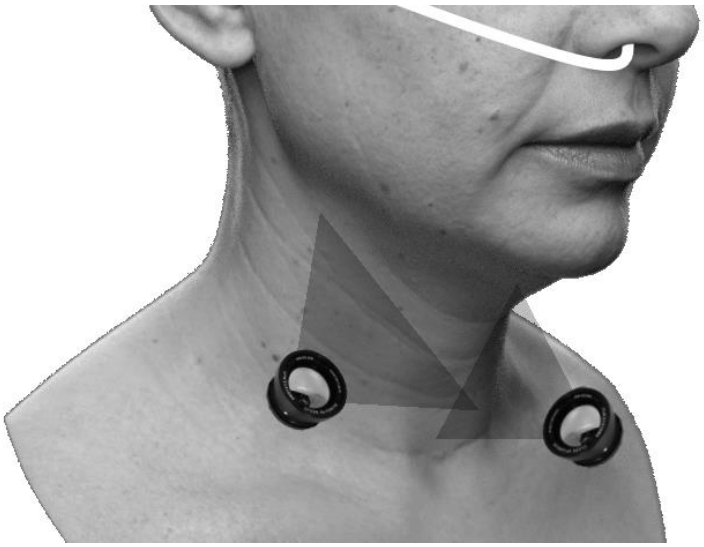


Figure 5

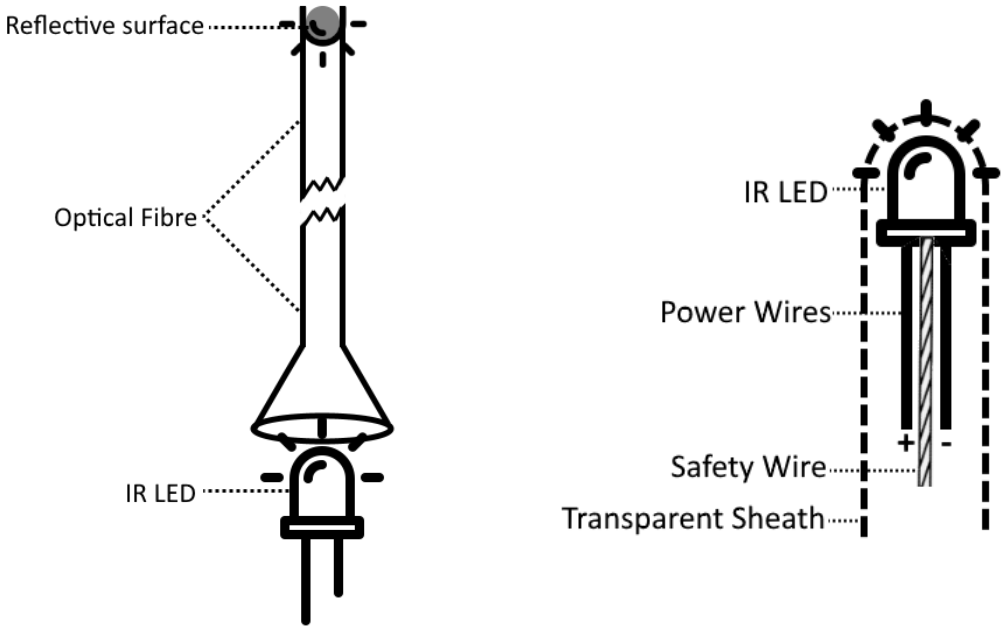


Figure 6

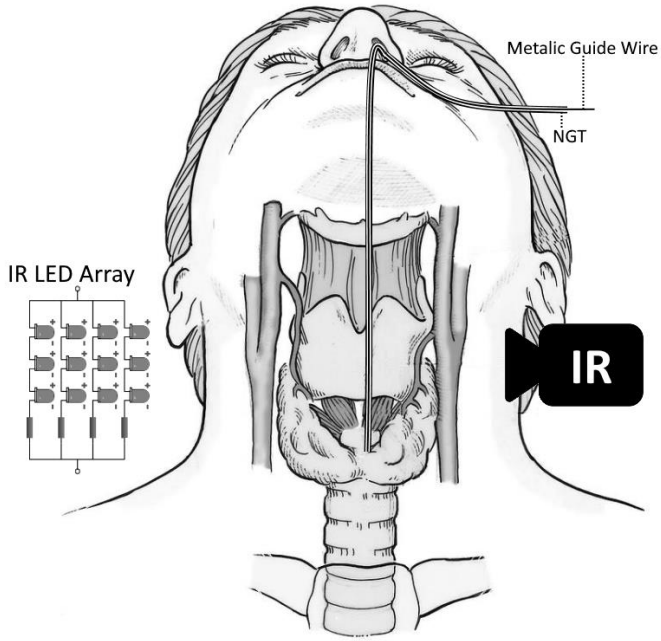


Figure 7

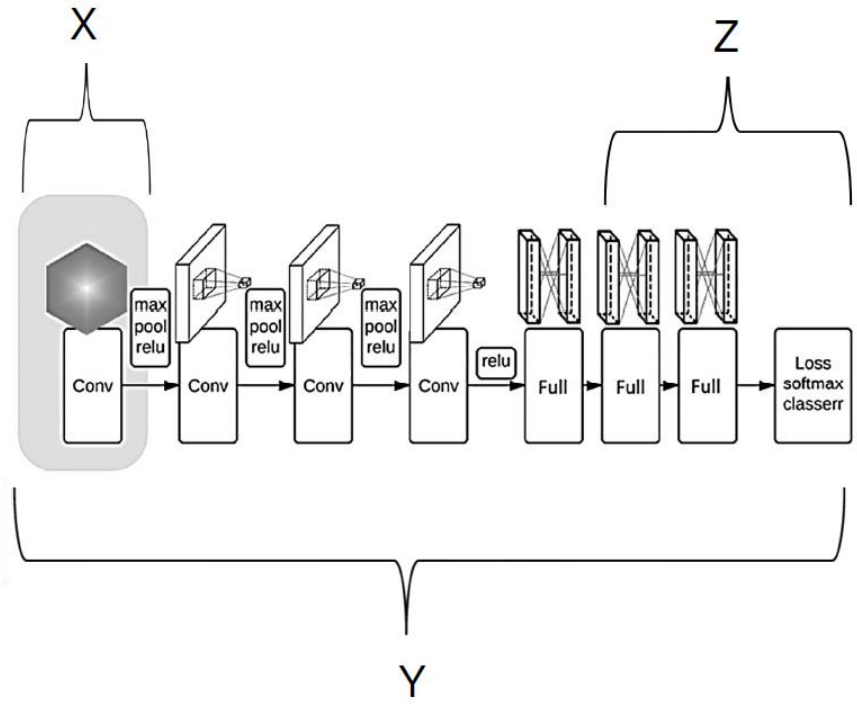


Figure 8

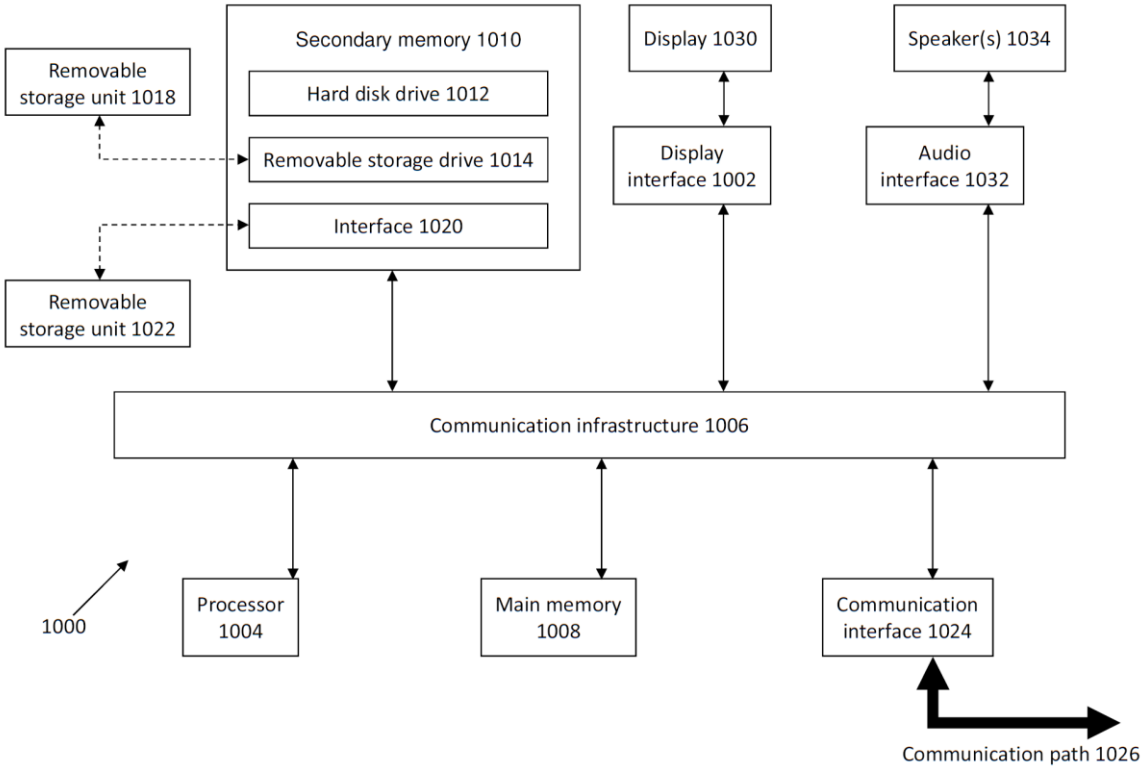

Secondary memory 1010
Hard disk drive 1012
Removable storage drive 1014
Interface 1020
Removable storage unit 1018
Removable storage unit 1022
Display 1030
Display interface 1002
Speaker(s) 1034
Audio interface 1032
Communication infrastructure 1006
1000
Processor 1004
Main memory 1008
Communication interface 1024
Communication path 1026

Figure 9