

Title (en)  
METHOD AND DEVICE FOR CONVERTING AN INPUT IMAGE OF A FIRST DOMAIN INTO AN OUTPUT IMAGE OF A SECOND DOMAIN

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR UMSETZUNG EINES EINGANGSBILDES EINER ERSTEN DOMÄNE IN EIN AUSGANGSBILD EINER ZWEITEN DOMÄNE

Title (fr)  
PROCÉDÉ ET DISPOSITIF DE CONVERSION D'UNE IMAGE D'ENTRÉE D'UN PREMIER DOMAINE EN UNE IMAGE DE SORTIE D'UN SECOND DOMAINE

Publication  
**EP 3785169 A1 20210303 (DE)**

Application  
**EP 19721223 A 20190418**

Priority  

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Abstract (en)  
[origin: WO2019206792A1] The invention relates to a method for training a first neural network for converting an input image (E) of a first domain into an output image (A) of a second domain, wherein the training is carried out on training images (T) of the second domain and input images (E) of the first domain provided for the training, comprising the following steps: providing a GAN network with a generator network (2) having the first neural network and a discriminator network (3) having a second neural network; training the discriminator network (3) based on a discriminator error value (DF) and one or more training images (T) and/or one or more output images (A), which are generated by processing one or more of the input images via the generator network (2), wherein the discriminator error value (DF) is determined depending on a respective quality (C) of the one or more training images (T) and/or the one or more output images; training the generator network (2) based on an input image (E) provided for the training and a generator error value (GF) which depends upon a quality (C) of the output image (A), provided by the generator network (2) depending on the input image (E), and upon a degree of similarity (S) between the input image (E) and the output image (A), which indicates a degree of structural similarity.

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