

Title (en)
ADVANCED CLOUD DETECTION USING NEURAL NETWORKS AND OPTIMIZATION TECHNIQUES

Title (de)
FORTSCHRITTLICHE CLOUD-DETEKTION UNTER VERWENDUNG NEURONALER NETZWERKE UND OPTIMIERUNGSVERFAHREN

Title (fr)
DéTECTION AVANCÉE DE NUAGE À L'AIDE DE RÉSEAUX NEURONAUX ET TECHNIQUES D'OPTIMISATION

Publication
EP 3857443 A1 20210804 (EN)

Application
EP 19864631 A 20190924

Priority
• US 201816140052 A 20180924
• US 2019052593 W 20190924

Abstract (en)
[origin: WO2020068744A1] Techniques for automatically determining, on a pixel by pixel basis, whether imagery includes ground images or is obscured by cloud cover. The techniques include training a Neural Network, making an initial determination of cloud or ground by using the Neural Network, and performing a max-flow, min-cut operation on the image to determine whether each pixel is a cloud or ground imagery.

IPC 8 full level
G06N 3/08 (2006.01); **G06T 7/162** (2017.01); **G06V 20/13** (2022.01)

CPC (source: EP US)
G06F 18/2323 (2023.01 - EP); **G06N 3/048** (2023.01 - EP); **G06N 3/084** (2013.01 - EP US); **G06V 10/454** (2022.01 - EP US); **G06V 10/50** (2022.01 - EP US); **G06V 10/513** (2022.01 - EP US); **G06V 10/54** (2022.01 - EP US); **G06V 10/7635** (2022.01 - EP US); **G06V 10/772** (2022.01 - EP US); **G06V 10/82** (2022.01 - EP US); **G06V 20/13** (2022.01 - EP US); **G06N 5/01** (2023.01 - EP)

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2020068744 A1 20200402; EP 3857443 A1 20210804; EP 3857443 A4 20220803

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