

Title (en)
SPARSE IMAGE PROCESSING

Title (de)
VERARBEITUNG VON VERSTREUTEN BILDERN

Title (fr)
TRAITEMENT D'IMAGE ÉPARSE

Publication
EP 4360001 A1 20240501 (EN)

Application
EP 22741938 A 20220621

Priority
• US 202163213249 P 20210622
• US 202217833402 A 20220606
• US 2022034259 W 20220621

Abstract (en)
[origin: WO2022271639A1] In one example, an apparatus comprises: a memory to store input data and weights, the input data comprising groups of data elements, each group being associated with a channel of channels, the weights comprising weight tensors, each weight tensor being associated with a channel of the channels; a data sparsity map generation circuit configured to generate, based on the input data, a channel sparsity map and a spatial sparsity map, the channel sparsity map indicating channels associated with first weights tensors to be selected, the spatial sparsity map indicating spatial locations of first data elements; a gating circuit configured to: fetch, based on the channel sparsity map and the sparsity map, the first weights tensors and the first data elements from the memory; and a processing circuit configured to perform neural network computations on the first data elements and the first weights tensors to generate a processing result.

IPC 8 full level
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CPC (source: EP)
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Designated extension state (EPC)
BA ME

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