

Title (en)
BI-DIRECTIONAL OPTICAL FLOW IN VIDEO CODING

Title (de)
BIDIREKTIONALER OPTISCHER FLUSS IN DER VIDEOCODIERUNG

Title (fr)
FLUX OPTIQUE BIDIRECTIONNEL DANS UN CODAGE VIDÉO

Publication
EP 4268452 A1 20231101 (EN)

Application
EP 21844157 A 20211221

Priority
• US 202063129190 P 20201222
• US 202117645233 A 20211220
• US 2021064600 W 20211221

Abstract (en)
[origin: WO2022140377A1] A method of decoding video data includes determining that bi-directional optical flow (BDOF) is enabled for a block of the video data; dividing the block into a plurality of sub-blocks based on the determination that BDOF is enabled for the block, determining, for each sub-block of one or more sub-blocks of the plurality of sub-blocks, respective distortion values, determining that one of per-pixel BDOF is performed or BDOF is bypassed for each sub-block of the one or more sub-blocks of the plurality of sub-blocks based on the respective distortion values, determining prediction samples for each sub-block of the one or more sub-blocks based on the determination of per-pixel BDOF being performed or BDOF being bypassed, and reconstructing the block based on the prediction samples.

IPC 8 full level
H04N 19/105 (2014.01); **H04N 19/159** (2014.01); **H04N 19/176** (2014.01); **H04N 19/513** (2014.01); **H04N 19/577** (2014.01)

CPC (source: EP KR)
H04N 19/105 (2014.11 - EP); **H04N 19/119** (2014.11 - KR); **H04N 19/132** (2014.11 - KR); **H04N 19/139** (2014.11 - KR);
H04N 19/147 (2014.11 - KR); **H04N 19/159** (2014.11 - EP); **H04N 19/176** (2014.11 - EP KR); **H04N 19/513** (2014.11 - EP);
H04N 19/577 (2014.11 - EP)

Citation (search report)
See references of WO 2022140377A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022140377 A1 20220630; EP 4268452 A1 20231101; JP 2023553839 A 20231226; KR 20230123951 A 20230824;
TW 202243475 A 20221101

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US 2021064600 W 20211221; EP 21844157 A 20211221; JP 2023532594 A 20211221; KR 20237020313 A 20211221;
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