

DECLARATION OF FERNANDO C. CASTANEDA

I, FERNANDO C. CASTANEDA, pursuant to 28 U.S.C. § 1746, hereby declare as follows:

1. I am a freelance translator at TransPerfect, Inc. I am fluent in both English and French and have years of experience translating between French and English.

2. I submit this declaration to certify the accuracy of the English translation of a document attached hereto as Exhibit A, which is labeled PCT/FR97/01354 and is in the French language.

3. Attached hereto as Exhibit B is a true and accurate English translation of Exhibit A.

4. My translation of Exhibit A is based on my personal knowledge, my experience, and my review of Exhibit A. If called as a witness about the facts contained in these statements, I could testify competently based on such personal knowledge and the investigation I have conducted.

5. All statements made herein of my own knowledge are true, and all statements made on information and belief are believed to be true. Further, I am aware that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001. I declare under penalty of perjury that the foregoing is true and correct.

6. I also understand that by submitting this declaration I may be asked to appear for a deposition asking me questions limited to the material in my declaration. With my signature below, I agree to make reasonable efforts to make myself available for such a deposition at a reasonable place and time of my choosing.

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I declare under penalty of perjury that the foregoing is true and correct.

Executed on September 30, 2022 at EL PASO, TX.



FERNANDO C. CASTANEDA

Exhibit A



DEMANDE INTERNATIONALE PUBLIÉE EN VERTU DU TRAITE DE COOPERATION EN MATIÈRE DE BREVETS (PCT)

<p>(51) Classification internationale des brevets ⁶ : G06T 7/20</p>	<p>A1</p>	<p>(11) Numéro de publication internationale: WO 98/05002 (43) Date de publication internationale: 5 février 1998 (05.02.98)</p>
<p>(21) Numéro de la demande internationale: PCT/FR97/01354 (22) Date de dépôt international: 22 juillet 1997 (22.07.97) (30) Données relatives à la priorité: 96/09420 26 juillet 1996 (26.07.96) FR (71) Déposant (pour tous les Etats désignés sauf US): CARLUS MAGNUS LIMITED [-/-]; Victoria House, Main Street, Gibraltar (GI). (72) Inventeur; et (75) Inventeur/Déposant (US seulement): PIRIM, Patrick [FR/FR]; 56, rue Patay, F-75013 Paris (FR). (74) Mandataire: LE BRUSQUE, Maurice; Cabinet Harle & Phelip, 21, rue de la Rochefoucaud, F-75009 Paris (FR).</p>		<p>(81) Etats désignés: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, brevet ARIPO (GH, KE, LS, MW, SD, SZ, UG, ZW), brevet eurasien (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), brevet européen (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), brevet OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>Publiée Avec rapport de recherche internationale. Avec revendications modifiées et déclaration.</p>
<p>(54) Title: METHOD AND DEVICE FOR REAL-TIME DETECTION, LOCATION AND DETERMINATION OF THE SPEED AND DIRECTION OF MOVEMENT OF AN AREA OF RELATIVE MOVEMENT IN A SCENE (54) Titre: PROCÉDE ET DISPOSITIF FONCTIONNANT EN TEMPS REEL, POUR LE REPERAGE ET LA LOCALISATION D'UNE ZONE EN MOUVEMENT RELATIF DANS UNE SCENE, AINSI QUE POUR LA DETERMINATION DE LA VITESSE ET DE LA DIRECTION DU DEPLACEMENT</p>		
<p>(57) Abstract</p> <p>A method and device for real-time detection, location and determination of the speed and direction of movement of an area of relative movement in a scene, are disclosed. According to the method, the digital video input signal S(PI) is subjected to a time-based processing step wherein changes in the value of each pixel between one frame and the corresponding previous frame are used to generate a binary signal DP representing a significant change or the lack thereof, and a digital signal CO representing the degree of change; and to a spatial processing step wherein both signals are distributed over a matrix for a single frame passing therethrough, and the relative movement to be sensed as well as the parameters thereof are deduced from the resulting matrix distribution. For this purpose, the device comprises a time processing unit (15) combined with a memory (16) and a spatial processing unit (17) combined with a delay unit (18). Clock (20) and control (19) units are provided for clocking the operation of units (15) and (17).</p> <p>(57) Abrégé</p> <p>L'invention a pour objet un procédé et un dispositif, fonctionnant en temps réel, pour le repérage, la localisation, la détermination de la vitesse et de la direction du déplacement en temps réel d'une zone en mouvement relatif dans une scène. Le procédé réalise un traitement temporel du signal vidéo numérique d'entrée S(PI), consistant à déduire, des variations de la valeur de chaque pixel entre une trame et la trame correspondante antérieure, un signal binaire DP de variation ou non-variation significative et un signal numérique CO représentatif de l'importance de cette variation, et un traitement spatial, consistant à répartir sur une matrice par roulement ces deux signaux pour une même trame qui défile à travers la matrice et à déduire de cette répartition matricielle le mouvement relatif recherché et ses paramètres. A cet effet, le dispositif comporte une unité de traitement temporel (15) associée à une mémoire (16) et une unité de traitement spatial (17) associée à une unité à retards (18); les unités d'horloge (20) et de commande (19) cadencant le fonctionnement des unités (15 et 17).</p>		

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