

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
3 May 2001 (03.05.2001)

PCT

(10) International Publication Number
WO 01/31497 A1

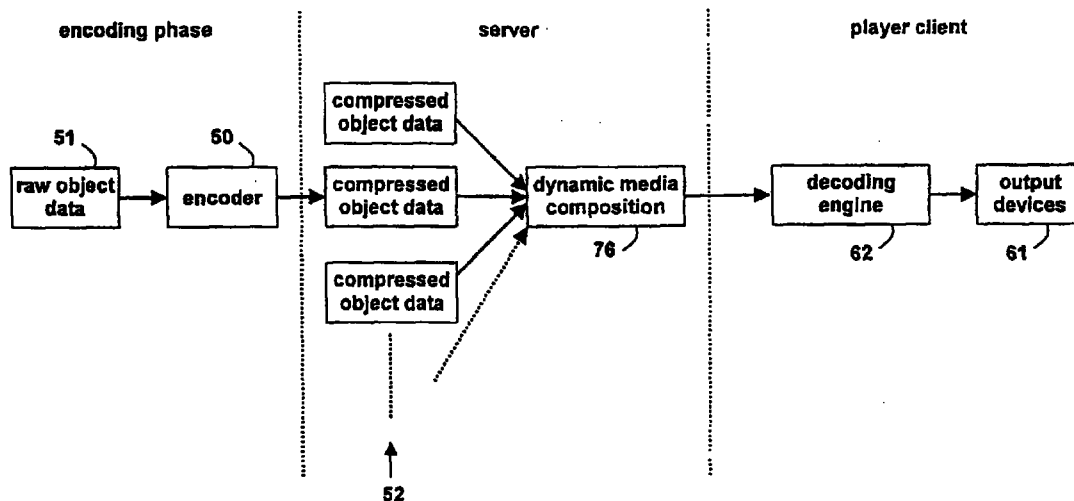
- (51) International Patent Classification⁷: **G06F 17/30**, H04L 12/56, H04N 7/26
- (74) Agents: **WEBBER, David, Brian et al.**; Davies Collison Cave, 1 Little Collins Street, Melbourne, VIC 3000 (AU).
- (21) International Application Number: **PCT/AU00/01296**
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (22) International Filing Date: 20 October 2000 (20.10.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
PQ 3603 22 October 1999 (22.10.1999) AU
PQ 8661 7 July 2000 (07.07.2000) AU
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): **ACTIVESKY, INC.** [US/US]; Suite 101, 730 Bair Island Road, Redwood City, CA 94063 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): **GONZALEZ, Ruben** [AU/AU]; 6 Herrington Close, Arundel Hills, QLD 4214 (AU).

Published:

- With international search report.
- Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

[Continued on next page]

(54) Title: **AN OBJECT ORIENTED VIDEO SYSTEM**



(57) Abstract: A method of generating an object oriented interactive multimedia file, including encoding data comprising at least one of video, text, audio, music and/or graphics elements as a video packet stream, text packet stream, audio packet stream, music packet stream and/or graphics packet stream respectively, combining the packet streams into a single self-contained object, said object containing its own control information, placing a plurality of the objects in a data stream, and grouping one or more of the data streams in a single contiguous self-contained scene, the scene including format definition as the initial packet in a sequence of packets. An encoder for executing the method is provided together with a player or decoder for parsing and decoding the file, which can be wirelessly streamed to a portable computer device, such as a mobile phone or a PDA. The object controls provide rendering and interactive controls for objects allowing users to control dynamic media composition, such as dictating the shape and content of interleaved video objects, and control the objects received.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.