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(74) Agent: **ATMD BIRD & BIRD LLP**; 2 Shenton Way, #18-01 SGX Centre 1, Singapore 068804 (SG).

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(71) Applicant (for all designated States except US): **CREATIVE TECHNOLOGY LTD** [SG/SG]; 31 International Business Park, Creative Resource, Singapore 609921 (SG).

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(72) Inventors; and

(75) Inventors/Applicants (for US only): **MURPHY, Nick** [GB/GB]; Long Hill House, Long Hill, The Sands, Surrey GU10 1NQ (GB). **LAWS, Philip** [GB/GB]; 59 Feltham Road, Ashford, Middlesex TW15 1DQ (GB). **LEE, Teck Chee** [SG/SG]; 84 Corporation Road, #01-07 Lakeholmz, Singapore 649821 (SG). **TOO, Yew Heng** [SG/SG]; Block 628a, Woodlands Ring Road, #07-280, Singapore

Declarations under Rule 4.17:

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(54) Title: A DATA PROCESSING APPARATUS FOR SEGMENTAL PROCESSING OF INPUT DATA, SYSTEMS USING THE APPARATUS AND METHODS FOR DATA TRANSMITTAL

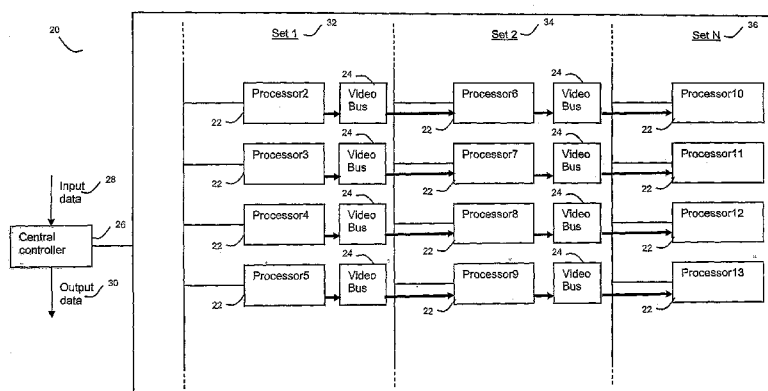


Figure 1

(57) Abstract: There is provided a data processing apparatus for segmental processing of input data. The apparatus includes a plurality of data processors connected in a series configuration, the plurality of data processors being able to transmit discrete data packets over a video bus to one another, with the plurality of data processors being divided into a plurality of data processing sets; and a central controller coupled to the plurality of data processors for controlling allocation of the input data to the plurality of data processing sets, the central controller being also for controlling transmission of output data from the apparatus. The apparatus incorporates several varying methods for data transmittal amongst data processors and has several applications which will be described.



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