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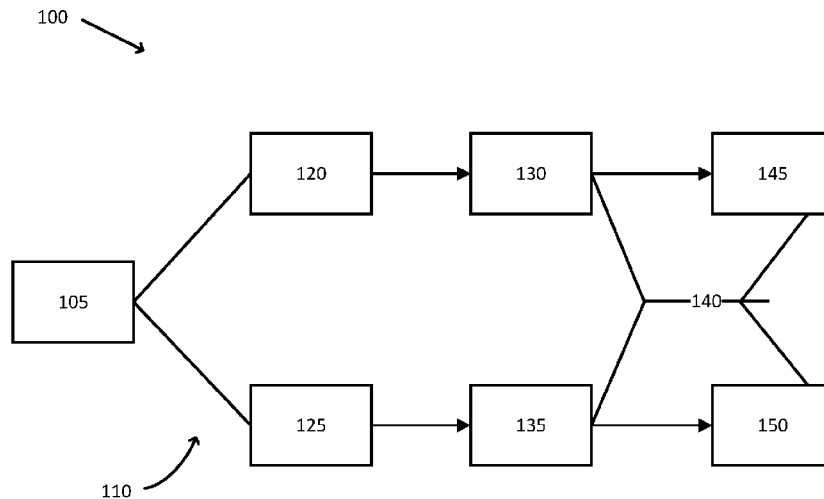


FIG. 1

(57) Abstract: Artificial neural network systems involve the receipt by a computing device of input data that defines a pattern to be recognized (such as faces, handwriting, and voices). The computing device may then decompose the input data into a first subband and a second subband, wherein the first and second subbands include different characterizing features of the pattern in the input data. The first and second subbands may then be fed into first and second neural networks being trained to recognize the pattern. Reductions in power expenditure, memory usage, and time taken, for example, allow resource-limited computing devices to perform functions they otherwise could not.



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C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	US 2014/0081895 A1 (OLIVER COENEN et al.) 20.03.2014, [0070], [0077], [0098]-[0119], [0128], [0134], [0136], [0138], [0144], [0146], [0149], [0155], [0178], [0180], [0186], [0201], [0203], [0205], [0208], 0221] fig. 1-4, abstract	1-20		
A	US 2013/0151450 (FILIP PONULAK) 13.06.2013	1-20		
A	US 2013/0325765 A1 (QUALCOMM INCORPORATED) 05.12.2013	1-20		
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.				
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