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(54) Title: SYSTEM FOR THE ACQUISITION AND ANALYSIS OF MUSCLE ACTIVITY AND OPERATION METHOD THEREOF

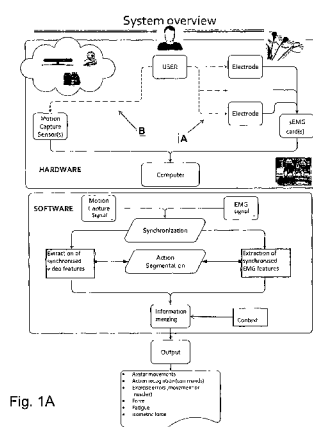


Fig. 1A

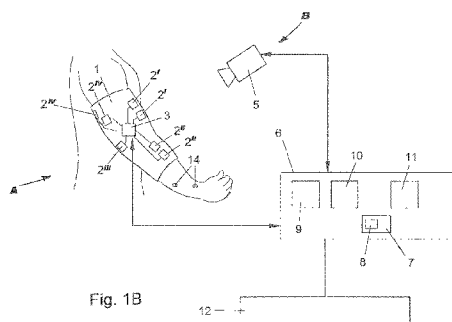


Fig. 1B

(57) Abstract: A system and corresponding acquisition and analysis method of an individual's muscle activity is disclosed, comprising at least an electromyographic acquisition section (A) and a video acquisition section (B) apt to acquire through respective sensors at least first electric signals of an individual's muscle group and second digital video signals of at least said muscle group, a computer processor (6) and a user interface (12) through which to provide an output processed by said computer processor (6). The computer processor furthermore comprises an interface communicating with said electromyographic section (A) and said video section (B), a database (11) of deductive rules and processing and analysis means (9) provided with an expert system (10) employing an inferential motor by which said first and second signals of said electromyographic acquisition section (A) and of said video section (B) are correlated applying said deductive rules specific of the methods and tools of artificial intelligence arranged in said database (11); at least one detection sensor of the individual's skin impedance is furthermore provided, apt to determine an impedance value to be used as correction parameter of the gain of said sensors of the electromyographic acquisition section (A).