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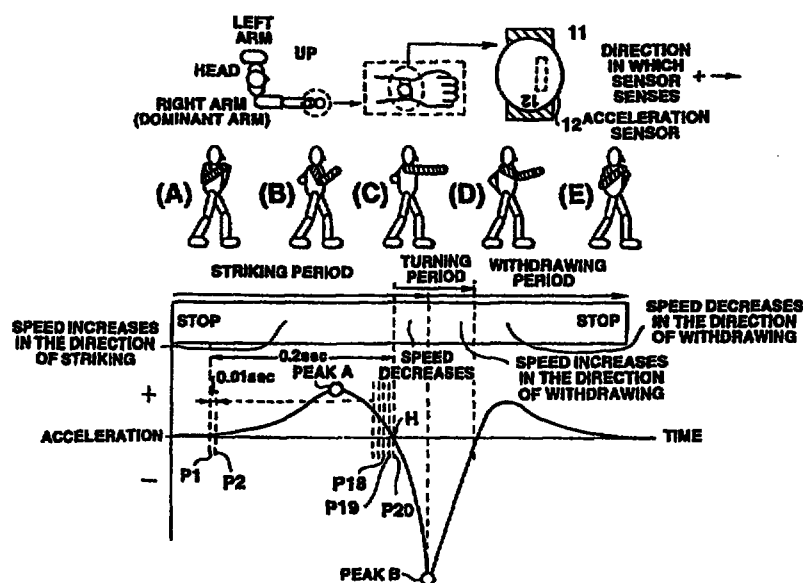


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(54) Title: IMPULSE FORCE ESTIMATING DEVICE, IMPULSE FORCE ESTIMATING METHOD, AND MEDIUM STORING IMPULSE FORCE ESTIMATION PROGRAM



(57) Abstract

When a person wearing the wristwatch device (11) on his or her dominant arm has struck a blow, an acceleration sensor (12) senses acceleration at regular intervals of time, extracts accelerations x1 to x20 sensed at 20 points in front of the hit point H at which the sensed acceleration changes from positive to negative, and stores them in a RAM (20). The impulse force is calculated by multiplying the accelerations x1 to x20 at the 20 points in front of the hit point H by the weighting coefficients determined on the basis of the accelerations sensed in a trial performance and the actually measured impulse force and stored in a ROM (19). Therefore, the impulse force can be estimated accurately without actually striking a secured object.