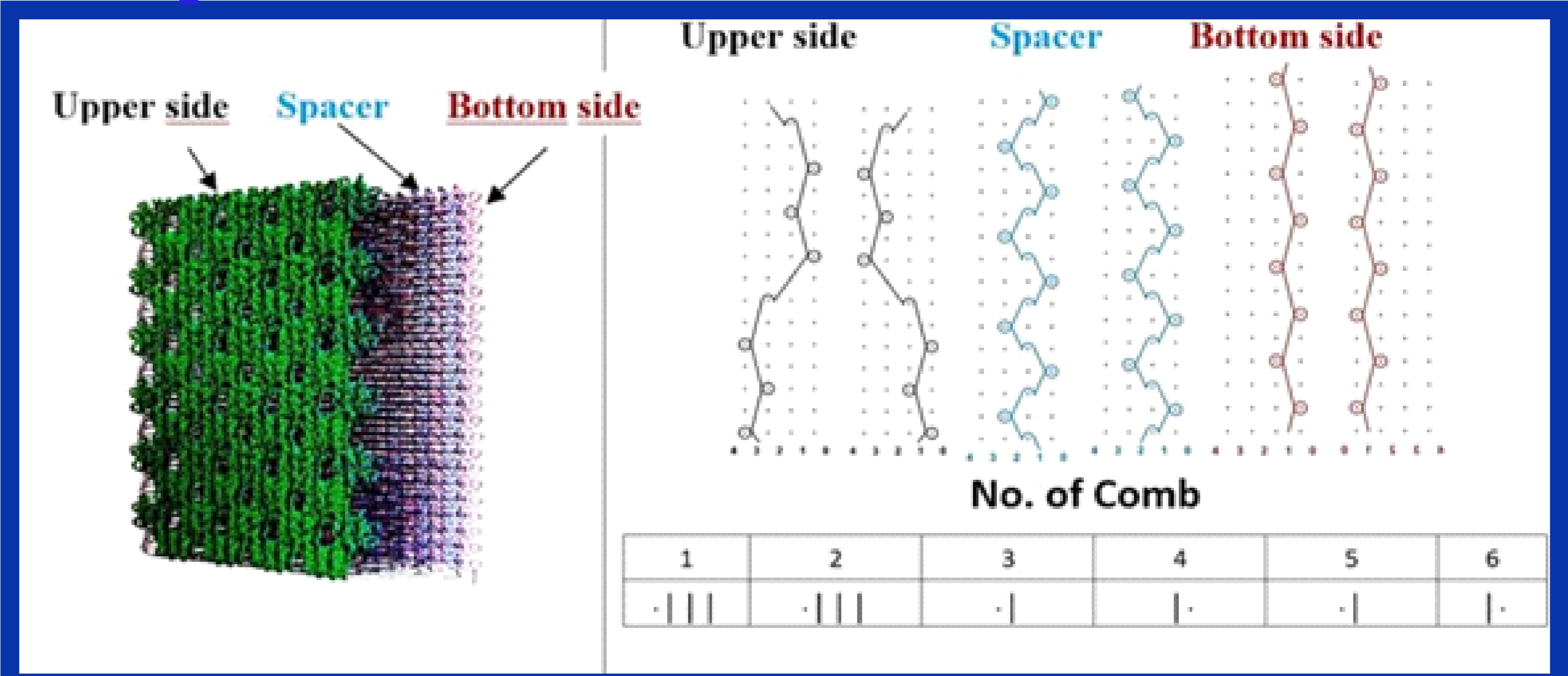
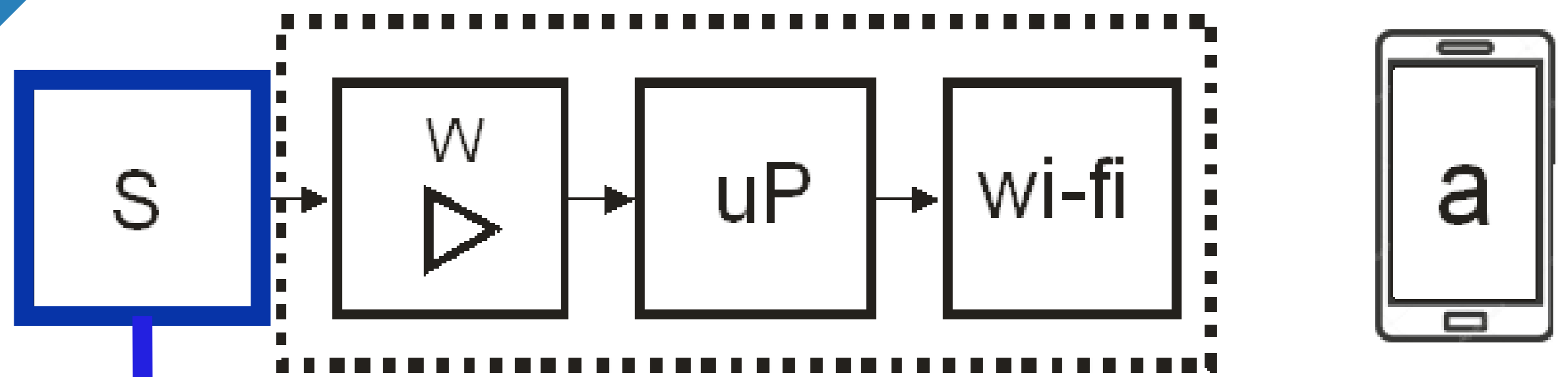
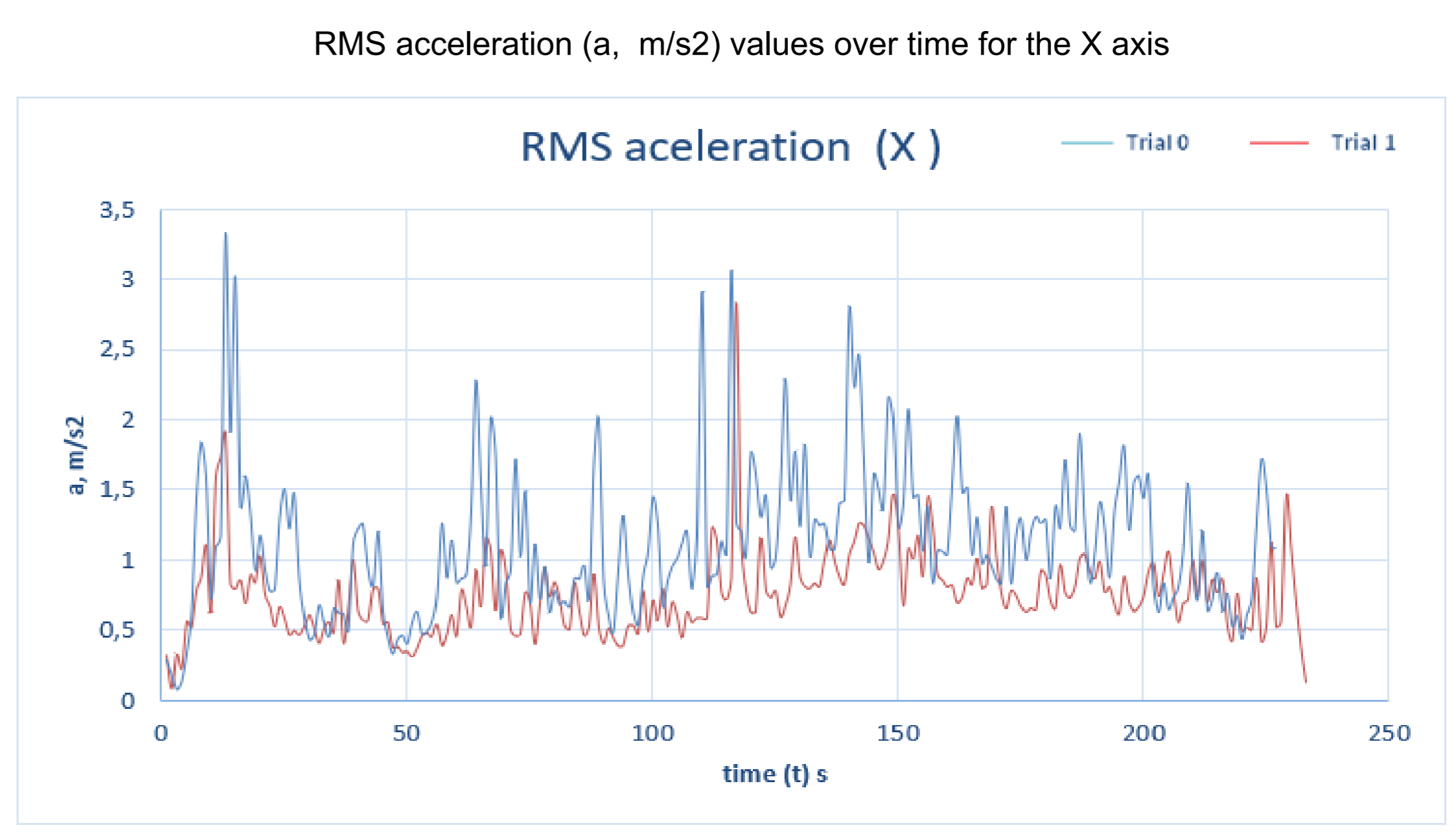
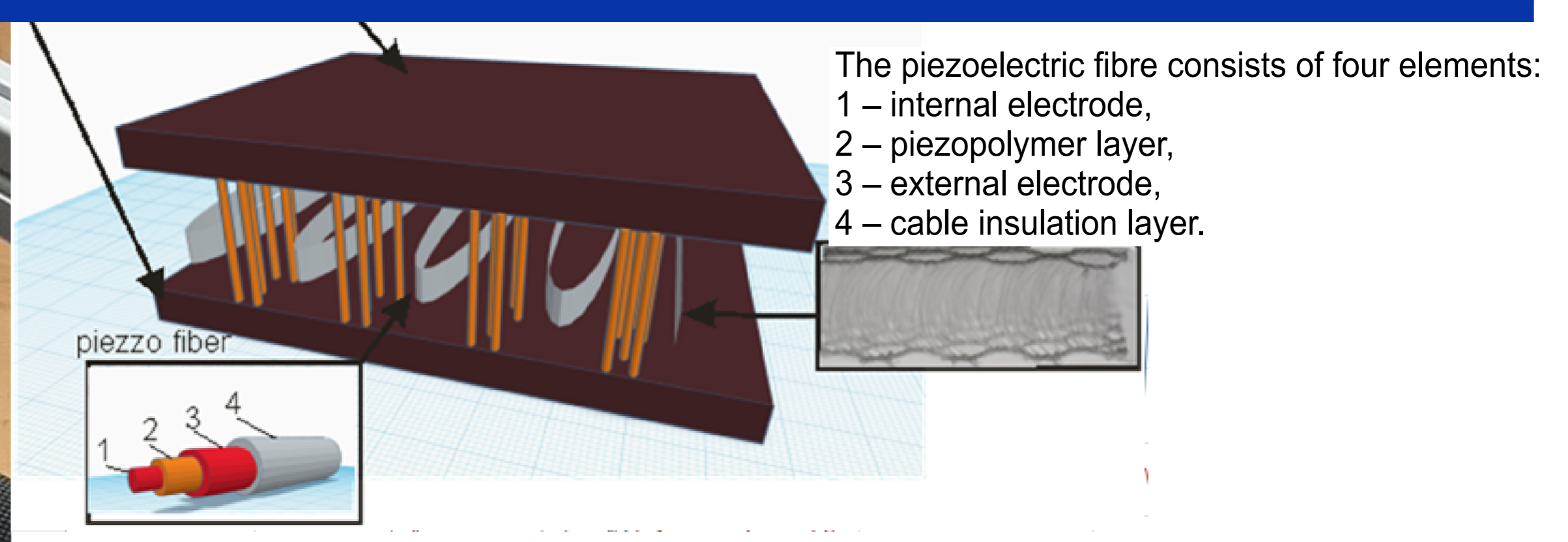


system for monitoring the vibration level in the seat with increased vibration exposure

Vibration diagnostics



Comfort of use
quick alert
textile knitted sensor
minimizing the transmission of vibrations
mobile app



Average RMS values and the calculated SEAT damping coefficient for individual components X, Y, Z

	Average value RMS (X)	Average value RMS (Y)	Average value RMS (Z)
Sample Zero - Mean	1.146 m/s ²	0.625 m/s ²	2.130 m/s ²
Medium sample	0.765 m/s ²	0.626 m/s ²	2.053 m/s ²
SEAT coefficient for the prototype seat	1.499	1.000	1.000

The subject of the invention is a textronics diagnostic system for monitoring the vibration level in the seats with increased exposure to vibrations, especially in the seats of operators of machines and mechanical devices, and in car seats for children. It is important that the seats minimize the energy of vibrations in the frequency ranges from 4 to 25 Hz, which are particularly dangerous for people, where resonance phenomena of human internal organs occur. The textronic diagnostic system consists of a 3D sensory spatial fabric of the spacer type with an implemented piezoelectric thread connected to an electronic device equipped with software with the functionality of recording and processing vibrations values ..

