

From: Huan-Ping Wu {e-mail redacted}
Sent: Thursday, December 08, 2016 9:30 AM
To: '2014_interim_guidance@uspto.gov'
Subject: Question on characterizing mathematical relationship

Dear Sir,

I was studying the 2014 Interim Guidance on Subject Matter Eligibility. On page 32 of the training presentation, the first bullet point of second column states "The claim operates using certain mathematical relationship, e.g., velocity is a relationship between the position of an object with respect to time."

Characterizing velocity, which is a term having a dimension of [distance/time], as a mathematical relationship would seemingly open up many other terms with similarity for scrutiny. For instance, electrical current has the dimension of [charge/time]. In physics, many of terms may be considered as either parameters of quantity, or intensity. For example, time, distance, weight, electrical charge, or population are parameters of quantity that has the physical dimension of [---] while pressure, velocity, concentration, slope, electrical current, or population density are parameters of intensity that has the physical dimension of [---]/[---], or something per something. Extending from these definitions, it would seem that velocity is only a parameter of intensity in physics, and not necessary a mathematical relationship. Otherwise, the electrical current, as many scientists and engineers may use it for defining and detecting signals, may also be characterized as mathematical relationship.

Please advise me on my above notes.

Respectfully,

Ping Wu

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