United States Patent and Trademark Office
Before the Patent Trial and Appeal Board

Sharp Corporation et al., Petitioner
v.
Surpass Tech Innovation LLC, Patent Owner

Case IPR2015-00021
Patent No. 7,202,843

Petitioner's Demonstrative Exhibits

Overview

The '843 Patent

The Prior Art Ham Reference

Patent Owner's 1st Argument: Ham's Data Modulator

Patent Owner's 2nd Argument: The Construction Of "Generating"

Patent Owner's 3rd Argument: "Overdriving"

The '843 Patent

The '843 Patent: The Problem

"A liquid crystal display (LCD) has advantages . . . . However, ***an LC[D]
does have some disadvantages***. Because of the limitations of physica[l]
characteristics, the liquid crystal molecules need to be twisted and
rearranged when changing input data, which ***can cause the images t[o]
delayed***. For satisfying the rapid switching requirements of multimed[ia]
equipment, improving the response speed of liquid crystal is desired[.]"

Ex. 1001, '843 Patent, Col. 1:14-26; see also Paper 1, Petition a[t]

The First Solution: Multiple Data Impuls[

*"**In contrast to the prior art, the present invention discloses a** driving c[* and relating driving **method to** generate two pieces of pixel data in each [* period for every pixel on an LCD panel and then to **generate two data i[** according to the two pieces of pixel data **and to apply them** to each pixe[* **within a frame period** in order to change the transmission rate of a pixe[* electrode. Thus, . . . liquid crystal molecules of the pixels can twist **to re[** **predetermined gray level within a frame period, and blurring will not [**

Ex. 1001, '843 Patent, C[

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