

**PROTECTIVE ORDER MATERIAL - ATTORNEYS' EYES ONLY**

Exhibit P (Chart 1) Smart Stay, Smart Pause, Smart Scroll, Smart Rotation (██████████  
*Image Processing Techs., LLC v. Samsung Elec. Co., et al.*, No. 2:16-CV-0505-JRG (E.D. Tex.)

CONFIDENTIAL, SUBJECT TO PROTECTIVE ORDER **AEO – CONTAINS HIGHLY CONFIDENTIAL**

**Accused Instrumentalities that Include Smart Stay, Smart Pause, Smart Scroll Smart Rotation (Smart S  
Employ Samsung ██████████ Algorithm**

The Accused Instrumentalities that include Smart Stay, Smart Rotation, Smart Scroll, and Smart Pause that employ ██████████ algorithm embody the following Asserted Claims:

- '134 Patent, Claim 1;
- '293 Patent, Claims 1, 29;
- '518 Patent, Claim 39 (only Smart Scroll).

All accused smartphone and tablet products, including the Galaxy S8 and Tab 3, that include one or more of Smart Stay, Smart Rotation, Smart Scroll, and Smart Pause employ Samsung ██████████ for those features. ██████████ May 17, 2017 Docket Alarm. The complete list of Accused Instrumentalities that include these features and the accused algorithm is charted below.

This chart refers to particular features (such as Smart Stay, or Smart Rotation) as representative of the manner in which Smart Stay, Smart Rotation, Smart Scroll, and Smart Pause employ the Samsung ██████████ algorithm. This chart includes non-exhaustive representative citations to one or more Accused Instrumentalities.

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**III. U.S. PATENT NO. 6,717,518: CLAIM 39**

*Claim 39*

<b>Ref. No.</b>	<b>Claim No.</b>	<b>U.S. Patent No. 6,717,518, Claim 39</b>	<b>Accused Instrumentalities that Include Smart Scroll that Employ Algorithm</b>
22		A process of detecting a feature of an eye, the process comprising the steps of:	<p>Based on my investigation to date, the Smart Scroll feature, for example, phones and tablets utilizes a process of detecting a feature of an eye. This feature is present on at least the Samsung device models identified in Exhibit P to Image Processing's First Set of Interrogatories at 16–28.</p> <p>Smart Scroll detects, for example, a face and eyes. <i>See</i> Zavadsky Report at IV.B.2.3.</p> <p>The Smart Scroll feature scrolls the user's screen depending on either the user's detected eyes or the user's detected face, as determined by the user's detected eyes. Samsung stated in deposition that ██████████</p>

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Ref. No.	Claim No.	U.S. Patent No. 6,717,518, Claim 39	Accused Instrumentalities that Include Smart Scroll that Employ Algorithm
			<p><b>Smart Screen</b></p> <p>With Smart screen activated your phone automatically adjusts screen time-out, rotation when it detects you are looking at the screen, and controls scrolling and playback when you are facing the screen.</p> <p>Smart screen features include:</p> <ul style="list-style-type: none"> <li>• <b>Smart stay:</b> The screen does not time out as long as you are looking at it.</li> <li>• <b>Smart rotation:</b> The screen automatically updates to match the angle at which you are viewing the screen.</li> <li>• <b>Smart pause:</b> The screen automatically pauses video playback if you look away from the screen.</li> <li>• <b>Smart scroll:</b> The screen scrolls according to the tilt of the phone and your face.</li> </ul> <p>Smart screen uses the front camera to detect when you are facing the screen. Some factors may affect the ability of the front camera to detect your face:</p> <ul style="list-style-type: none"> <li>• When the phone is not docked or held upright. For example, when placed on a table.</li> <li>• When the front camera cannot detect your face and eyes.</li> <li>• When the front camera is used for the current application.</li> </ul> <p><i>See, e.g.,</i> Ex. TT of Infringement Contentions at 29 (Samsung Gal showing Smart Scroll feature).</p>
23		acquiring an image of the face of the person, the image comprising pixels corresponding to the feature to be detected;	<p>Samsung stated in deposition that ██████████ Transcript at 133:1–4.</p> <p>Samsung stated in deposition that ██████████</p> <p>██████████ Because Smart</p> <p>██████████ must be the algorithm used. As detailed in th</p>

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Ref. No.	Claim No.	U.S. Patent No. 6,717,518, Claim 39	Accused Instrumentalities that Include Smart Scroll that Employ Algorithm
			<p>██████████ takes as input a detected face in order to detect eyes. See Section VI.A.1 at Paragraph 339.</p> <div data-bbox="1036 892 1620 1633" style="border: 1px solid black; padding: 5px;"> <p><b>Smart Screen</b></p> <p>With Smart screen activated your phone automatically adjusts screen time-out, rotation when it detects you are looking at the screen, and controls scrolling and playback when you are facing the screen.</p> <p>Smart screen features include:</p> <ul style="list-style-type: none"> <li>• <b>Smart stay:</b> The screen does not time out as long as you are looking at it.</li> <li>• <b>Smart rotation:</b> The screen automatically updates to match the angle at which you are viewing the screen.</li> <li>• <b>Smart pause:</b> The screen automatically pauses video playback if you look away from the screen.</li> <li>• <b>Smart scroll:</b> The screen scrolls according to the tilt of the phone and your face.</li> </ul> <p>Smart screen uses the front camera to detect when you are facing the screen. Some factors may affect the ability of the front camera to detect your face:</p> <ul style="list-style-type: none"> <li>• When the phone is not docked or held upright. For example, when placed on a table.</li> <li>• When the front camera cannot detect your face and eyes.</li> <li>• When the front camera is used for the current application.</li> </ul> </div> <p><i>See, e.g.,</i> Ex. TT of Infringement Contentions at 29 (Samsung Gal showing Smart Scroll feature).</p> <p>The Samsung ██████████ algorithm operates ██████████ is herein used solely for illustration.</p>

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Ref. No.	Claim No.	U.S. Patent No. 6,717,518, Claim 39	Accused Instrumentalities that Include Smart Scroll that Employ Algorithm
			 <p align="right">Image of a face of a person comprising pixels.</p>
24		identifying a characteristic of the face other than the feature to be detected;	When executing the Smart Scroll feature in Samsung phones and tablets, the face is identified other than the feature to be detected.  For example, the bounding box of the face is detected. <i>See</i> Zavadsky VI.A.1 at Paragraphs 339–341; <i>see also</i> Section V.A.1.  This face bounding box is based on facial features such as the location of the human nose, eyes, ears, mouth, etc. These features are implicit in the classifier face detection used in, for example, ██████████, Zavadsky Report at Section V.A.1 at Paragraph 229.

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