

**LISTING OF CHALLENGED CLAIMS**  
**Claims 1, 2, 10, 11, 13, 14, 17**  
**U.S. Patent No. 12,174,106**

<b>Claim Limitations</b>	
<b>1[pre]</b>	A flow cytometer, comprising:
<b>1[a]</b>	a light source arranged to illuminate a stream of particles in a viewing zone of a flow cell in the flow cytometer;
<b>1[b]</b>	a collecting optical element configured to collect and focus fluorescent light emitted by a particle illuminated by the light source such that the fluorescent light leaving the collecting optical element converges; and
<b>1[c]</b>	a wavelength division multiplexer (WDM) configured to separate into color bands the fluorescent light collected by the collecting optical element, the WDM including,
<b>1[d]</b>	a collimating optical element that is separate from the collecting optical element and is arranged to receive the fluorescent light collected by the collecting optical element, the collimating optical element configured to collimate the fluorescent light,
<b>1[e]</b>	a first semiconductor detector configured to detect and quantitate a first color band in the fluorescent light,
<b>1[f]</b>	a first curved mirror arranged to receive at least a portion of the fluorescent light after the fluorescent light has passed through the collimating optical element,
<b>1[f][i]</b>	the first curved mirror configured to reflect the portion of the fluorescent light towards the first semiconductor detector, and
<b>1[g]</b>	a first dichroic filter optically disposed between the first curved mirror and the first semiconductor detector,
<b>1[g][i]</b>	the dichroic filter configured to allow the first color band in the fluorescent light to pass through the first dichroic filter onto the first semiconductor detector, and
<b>1[g][ii]</b>	to reflect a second color band in the fluorescent light away from the first semiconductor detector.
<b>2</b>	The flow cytometer of claim 1, further comprising an optical fiber optically disposed between the collecting optical element and the WDM, the optical fiber arranged and configured to deliver the fluorescent light collected by the collecting optical element to the WDM.

<b>Claim Limitations</b>	
<b>10</b>	The flow cytometer of claim 1, wherein the light source comprises a plurality of lasers.
<b>11</b>	The flow cytometer of claim 10, wherein the plurality of lasers comprises a first laser configured to illuminate a particle in the stream at a first location in the viewing zone, and a second laser configured to illuminate the particle at a second location in the viewing zone.
<b>13[pre]</b>	A flow cytometer comprising:
<b>13[a]</b>	a light source arranged to illuminate a stream of particles in a viewing zone;
<b>13[b]</b>	a collecting optical element configured to collect and focus fluorescent light emitted by a particle illuminated by the light source such that the fluorescent light leaving the collecting optical element converges; and
<b>13[c]</b>	a wavelength division multiplexer (WDM) configured to separate into color bands the fluorescent light collected by the collecting optical element, the WDM including,
<b>13[d]</b>	a collimating optical element that is separate from the collecting optical element and is arranged to receive the fluorescent light collected by the collecting optical element, the collimating optical element configured to collimate the fluorescent light;
<b>13[e]</b>	a row of mirrors arranged and configured to sequentially reflect different color bands of the fluorescent light collected by the collecting optical element after the fluorescent light has passed through the collimating optical element,
<b>13[f]</b>	the row of mirrors including at least one curved mirror
<b>13[g]</b>	a row of dichroic filters opposed to the row of mirrors, each of the dichroic filters configured to pass one color band of the fluorescent light reflected by a mirror in the row of mirrors, and to reflect another color band of the fluorescent light reflected by the mirror;
<b>13[h]</b>	a row of semiconductor detectors, each of the semiconductor detectors arranged and configured to detect and quantitate the band of fluorescent light passing through a dichroic filter in the row of dichroic filters.
<b>14</b>	The flow cytometer of claim 13, further comprising a row of focusing optical elements, each of the focusing optical elements in the row arranged and configured to focus the band of

<b>Claim Limitations</b>	
	fluorescent light passing through a dichroic filter in the row of dichroic filters onto the corresponding semiconductor detector.
<b>17</b>	The flow cytometer of claim 13, wherein the row of mirrors and row of dichroic filters are arranged such that fluorescent light received by the WDM is reflected back and forth between the row of mirrors and the row of dichroic filters in a zig-zag pattern.