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(54) Title: SENSOR SYSTEMS COMPRISING ANTI-CHOKING FEATURES

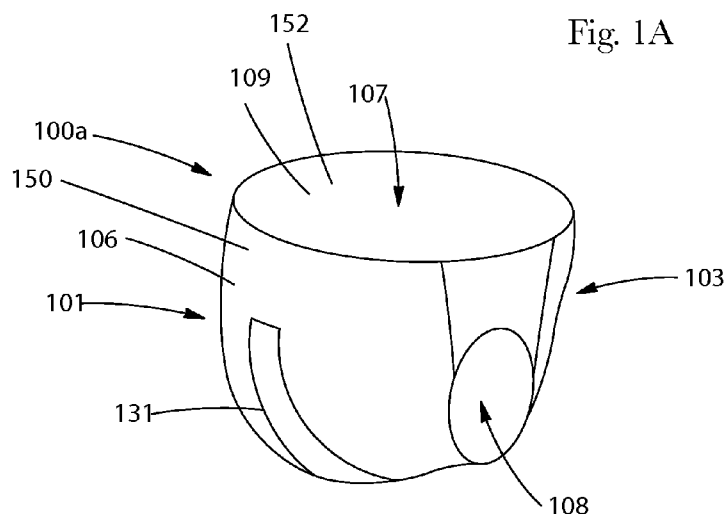


Fig. 1A

(57) Abstract: A sensor system for detecting a property of or within an absorbent article may comprise an absorbent article and a sensor. The absorbent article may comprise a garment-facing layer and an absorbent assembly. The sensor may be disposed in or on the absorbent article. The sensor may be separable from the absorbent article. A portion of the sensor may have a first dimension and a second dimension, wherein the first dimension is at least 1 inch and the second dimension is at least 2 inches. The sensor may be configured to sense a change in condition within the absorbent article.



AMENDED CLAIMS
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What is claimed is:

1. A sensor system for detecting a property of or within an absorbent article, comprising:
an absorbent article comprising a garment-facing layer and an absorbent assembly;
a sensor;
wherein the sensor is disposed in or on the absorbent article;
wherein the sensor is separable from the absorbent article;
wherein the sensor has a width of less than 3.175 cm (1.25 inches), a length of greater than 5.715 cm (2.25 inches), and a bending stiffness of less than 1000N/m; and
wherein the sensor is configured to sense a change in condition within the absorbent article.
2. The sensor system of claim 1, wherein sensor comprises a housing.
3. The sensor system according to any of the preceding claims, wherein sensor comprises a carrier layer.
4. The sensor system according to any of the preceding claims, wherein the sensor, carrier layer, or sensor housing comprises a shaped portion comprising a radius of curvature greater than 0.2 inches.
5. The sensor system according to any of the preceding claims, wherein the sensor is attached to the absorbent article via a plurality of attachment sites, wherein the spacing between the attachment sites is less than 20 mm.
6. The sensor system according to any of the preceding claims, wherein the absorbent article comprises a pocket configured to receive the sensor, wherein the pocket has a length longer than the sensor.
7. The sensor system of claim 6, wherein the pocket comprises a closure element
8. The sensor system according to any of the preceding claims, wherein the sensor, carrier layer, or sensor housing comprises one or more apertures.
9. The sensor system according to any of the preceding claims, wherein the sensor has a diameter greater than 30 mm.
10. A sensor system for detecting a property of or within an absorbent article, comprising:
an absorbent article comprising a garment-facing layer and an absorbent assembly;

a sensor;

wherein the sensor is disposed in or on the absorbent article;

wherein the sensor is separable from the absorbent article;

wherein the sensor has a bending stiffness of less than 1000 N/m;

wherein the shear force between the sensor, carrier layer, or sensor housing and the absorbent article is from 10 N to 70 N and wherein the pulling force to separate the sensor, carrier layer, or sensor housing from the article is 25 N to 500 N; and

wherein the sensor is configured to sense a change in condition within the absorbent article.

11. The sensor system of claim 1, wherein the shear force between the sensor, carrier layer, or sensor housing and the absorbent article is 20 N to 60 N.