

# Exhibit 14

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2003/0035906 A1**  
Memarian et al. (43) **Pub. Date: Feb. 20, 2003**

(54) **TRANSPARENT CONDUCTIVE STRATIFORM COATING OF INDIUM TIN OXIDE**

(52) **U.S. Cl.** ..... **428/1.3; 428/1.33; 427/126.3; 427/419.1; 136/256**

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(57) **ABSTRACT**

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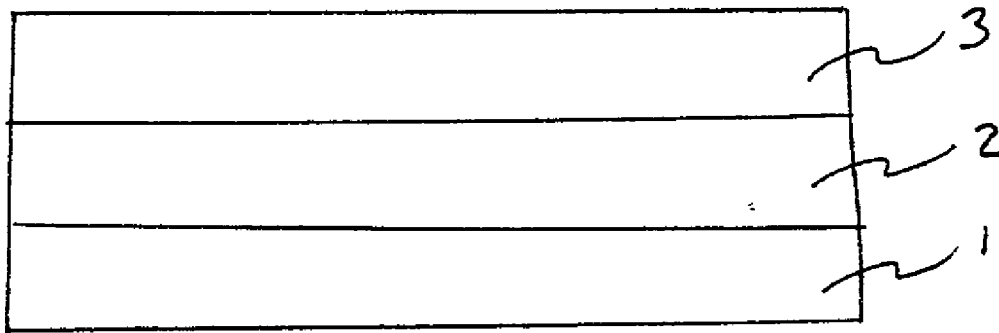
A transparent electrically conductive device which includes an indium tin oxide film is improved by providing an indium tin oxide film which contains a graded stack of individual indium tin oxide layers wherein the atomic percent of tin in the layers can be individually selected. Each indium tin oxide layer of the film contains 1-99 atomic percent tin. Each layer is made by a physical vapor deposition process or by sputter coating. Preferably the film which contains a plurality of indium tin oxide layers is applied to a transparent flexible substrate such as a polymeric sheet. Optional primer layers, hardcoat layers and topcoat layers may be included in the device.

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(22) Filed: **May 9, 2001**

**Publication Classification**

(51) **Int. Cl.<sup>7</sup>** ..... **C09K 19/00; B05D 5/12; H01L 31/00**



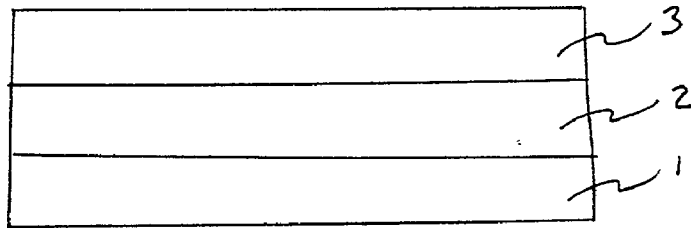


Figure 1

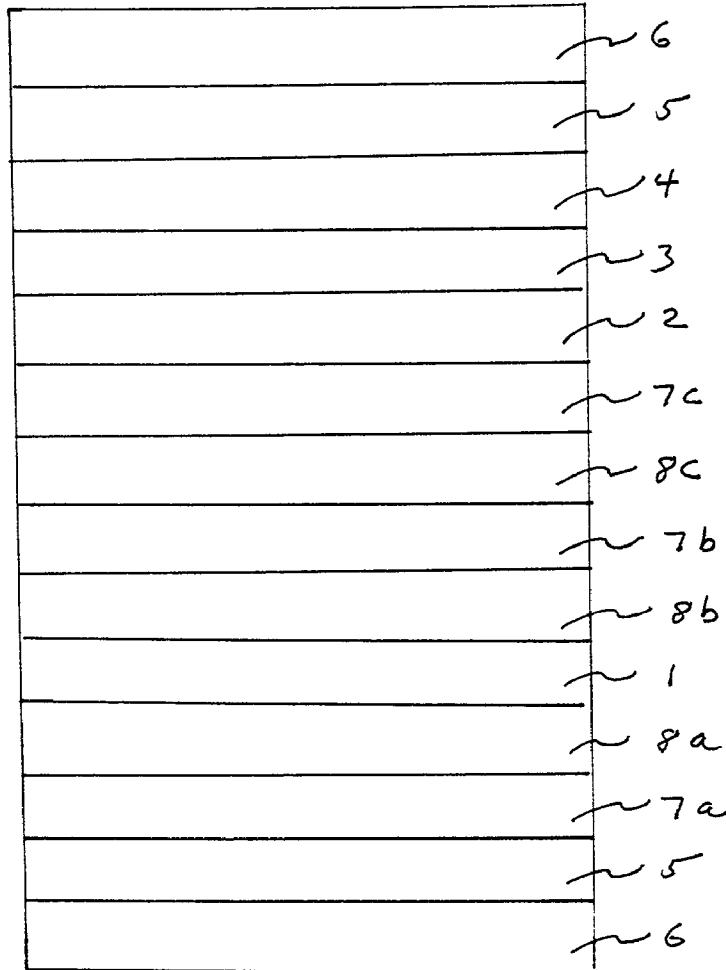


Figure 2

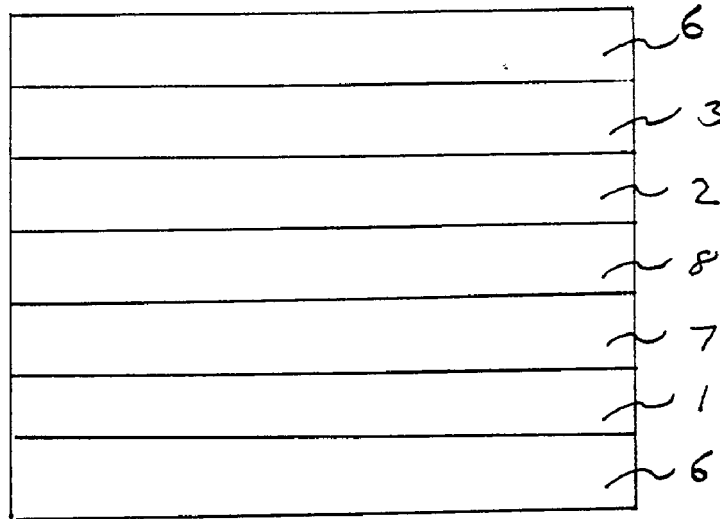


Figure 3

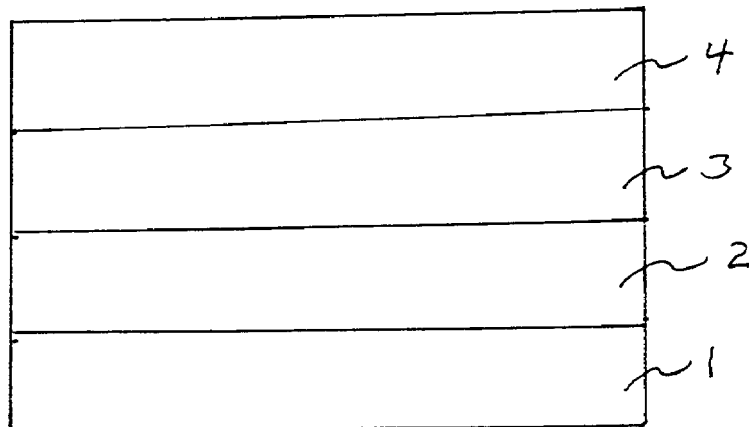


Figure 4

AUGER PROFILE (Atomic Concentration)

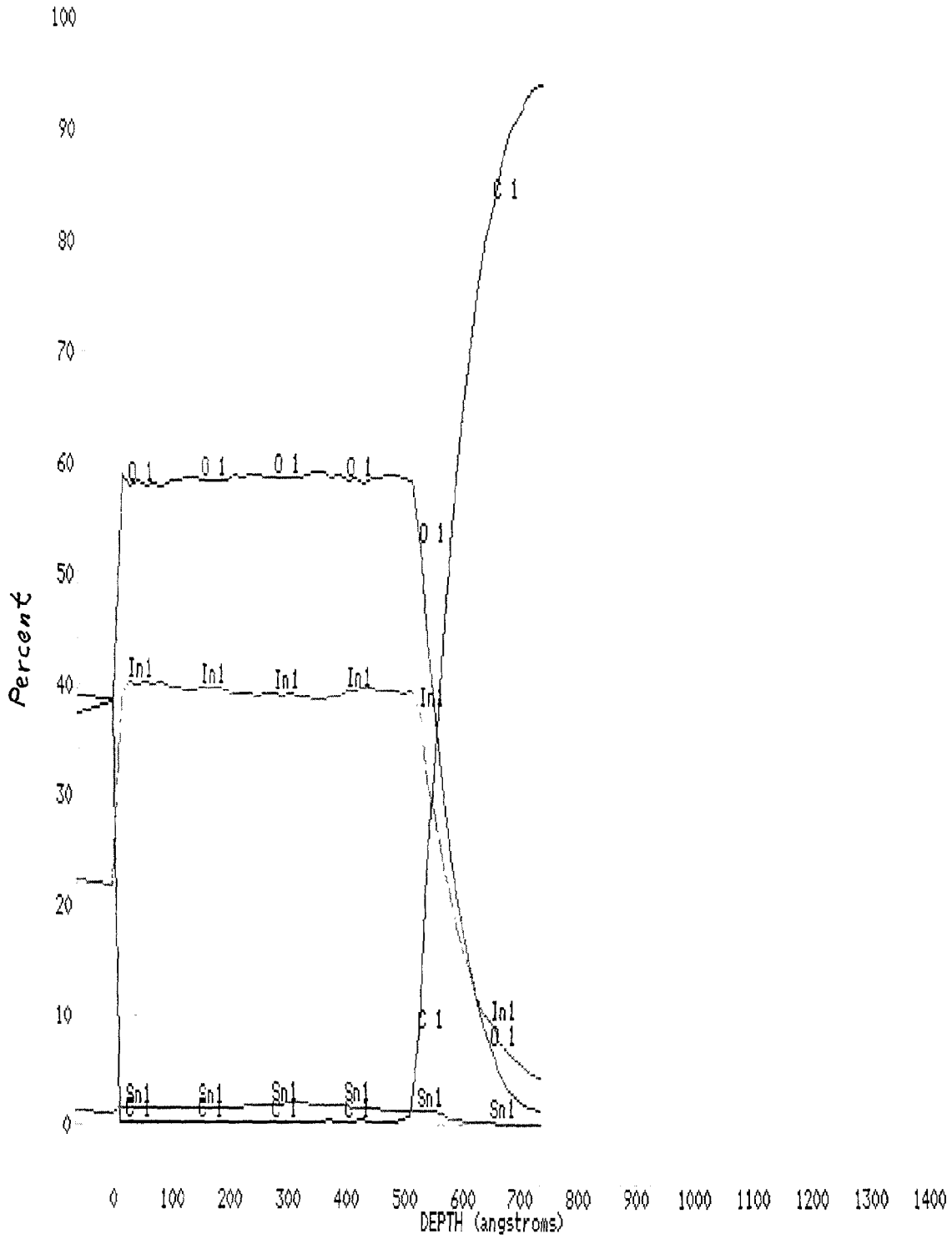


Figure 5a

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