stamp-making material can be applied onto the ink pattern of the master tool to form a stamp having a stamping pattern being negative to the ink pattern. A stamping surface of the stamping pattern can be inked with an ink composition and contacted with a metalized surface to form a printed pattern thereon according to the stamping pattern. Using the printed pattern as an etching mask, the metalized surface is etched to form electrically conductive traces.

In one aspect, there is provided a method comprising: screen-printing an ink pattern onto a major surface of a master tool, the ink pattern comprising a plurality of ink pattern elements extending away from the major surface and one or more indentations formed between the respective ink pattern elements that are adjacent to each other; and applying a stamp-making material to the major surface of the master tool to form an elastomeric stamp having a stamping pattern, the stamping pattern being negative to the ink pattern of the master tool, the stamping pattern comprising a base surface and one or more stamping pattern elements extending away from the base surface, the stamping pattern elements corresponding to the indentations of the master tool, and each of the stamping pattern elements having a stamping surface.

In one embodiment, a method includes screen-printing an ink pattern onto a major surface of a master tool. The ink pattern includes a plurality of ink pattern elements extending away from the major surface and one or more indentations formed between the respective ink pattern elements that are adjacent to each other. A stamp-making material is applied to the major surface of the master tool to form an elastomeric stamp having a stamping pattern. The stamping pattern is negative to the ink pattern of the master tool. The stamping pattern includes a base surface and one or more stamping pattern elements extending away from the base surface. The stamping pattern elements correspond to the indentations of the master tool, and each of the stamping pattern elements has a stamping surface.

In another aspect, there is provided an elastomeric stamp, produced by the method as defined herein.

There is also provided a method of forming an electrically conductive pattern on a substrate is provided. The method includes providing a master tool having an ink pattern on a major surface of a master substrate thereof. The ink pattern

includes a plurality of ink pattern elements extending away from the major surface and one or more indentations formed between the respective ink pattern elements that are adjacent to each other. A stamp-making material is applied to the major surface of the master tool to form an elastomeric stamp having a stamping pattern. The stamping pattern is negative to the ink pattern of the master tool. The stamping pattern includes a base surface and one or more stamping pattern elements extending away from the base surface. The stamping pattern elements correspond to the indentations of the master tool, and each of the stamping pattern elements has a stamping surface. The method further includes inking the stamping surfaces of the stamp with an ink composition. The stamping surfaces of the stamp are contacted with the metalized surface of the substrate to transfer the ink composition from the stamping surfaces of the stamp to the metalized surface and create a printed pattern thereon. The method further includes etching, using the printed pattern as an etching mask, the metalized surface to form one or more electrically conductive traces on the substrate.

In another aspect, there is provided a method of forming an electrically conductive pattern on a substrate, comprising: providing a master tool having an ink pattern on a major surface of a master substrate thereof, the ink pattern comprising a plurality of ink pattern elements extending away from the major surface and one or more indentations formed between the respective ink pattern elements that are adjacent to each other; applying a stamp-making material to the major surface of the master tool to form an elastomeric stamp having a stamping pattern, the stamping pattern being negative to the ink pattern of the master tool, the stamping pattern comprising a base surface and one or more stamping pattern elements extending away from the base surface, the stamping pattern elements corresponding to the indentations of the master tool, and each of the stamping pattern elements having a stamping surface; inking the stamping surfaces of the stamp with an ink composition; contacting the stamping surfaces of the stamp with the metalized surface of the substrate to transfer the ink composition from the stamping surfaces of the stamp to the metalized surface and create a printed pattern thereon; and etching, using the printed pattern as an etching mask, the metalized surface to form one or more electrically conductive traces on the substrate.

In another aspect, there is provided an electrically conductive pattern on a substrate, formed by the method as defined herein.

In another aspect, there is provided a glucose test strip comprising the electrically conductive pattern as defined herein.