

DRAWINGS

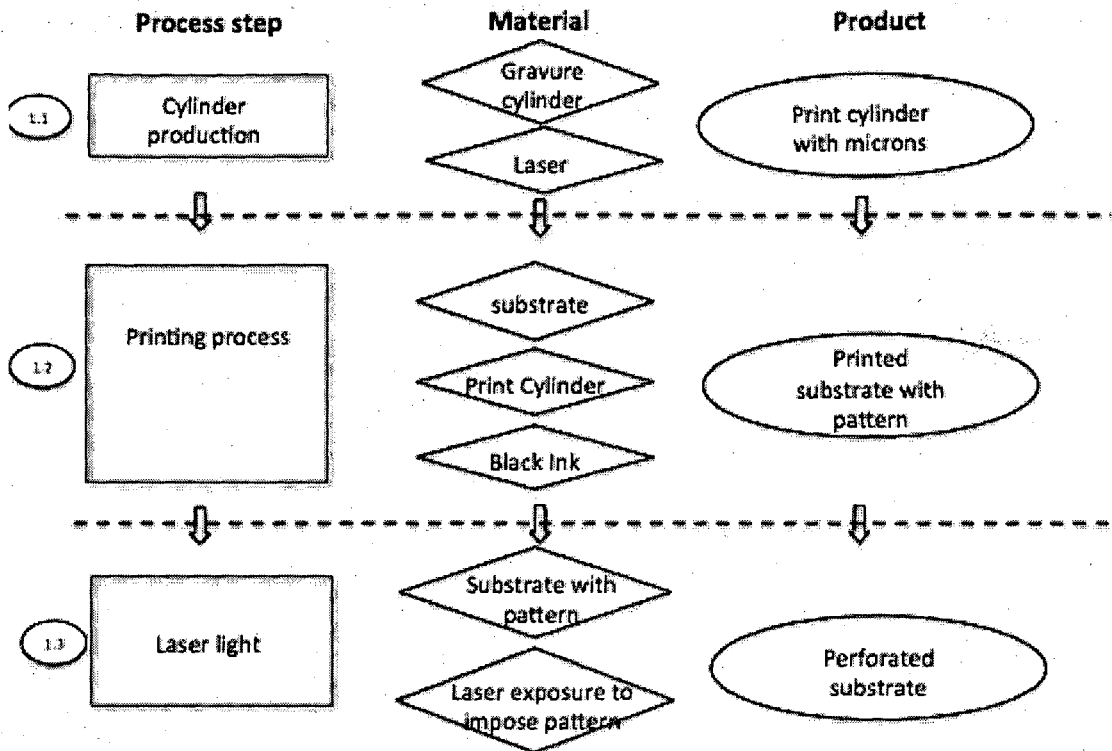


Figure 1

Fig. 1 illustrates the process flow chart to manufacture the perforated substrate.

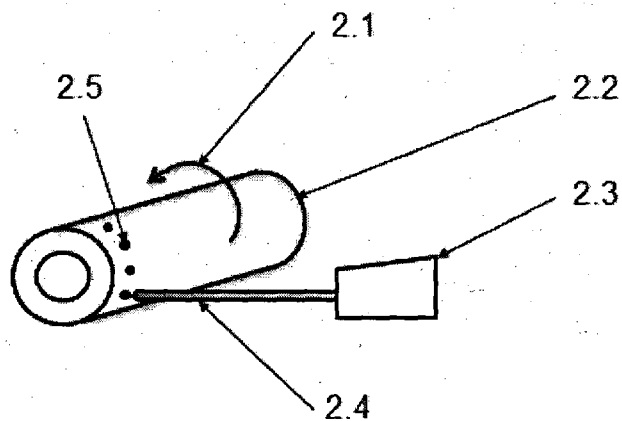


Figure 2

Fig 2 illustrates a rot gravure cylinder, which is exposed to laser technology to emboss microns into the cylinder.

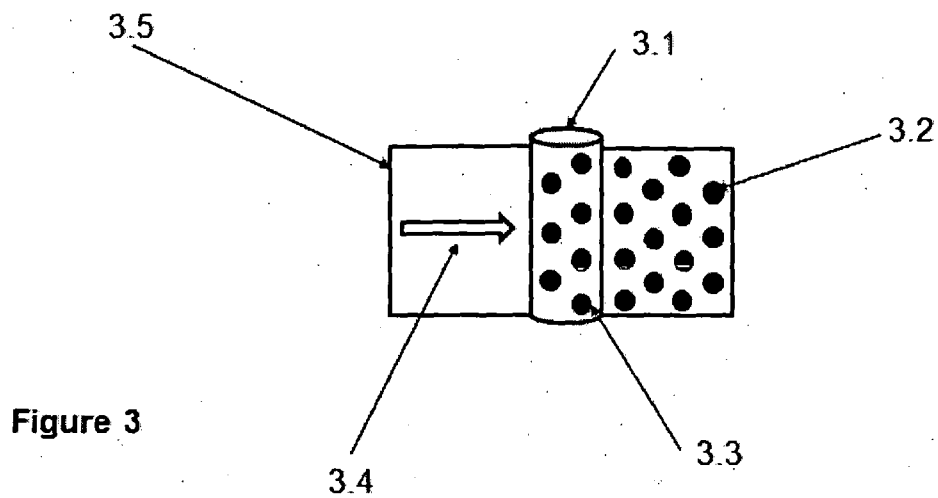


Figure 3

Fig 3 illustrates the print process where the printing cylinder applies the ink onto the substrate. The patterns on the substrate result from the microns of the print cylinder.

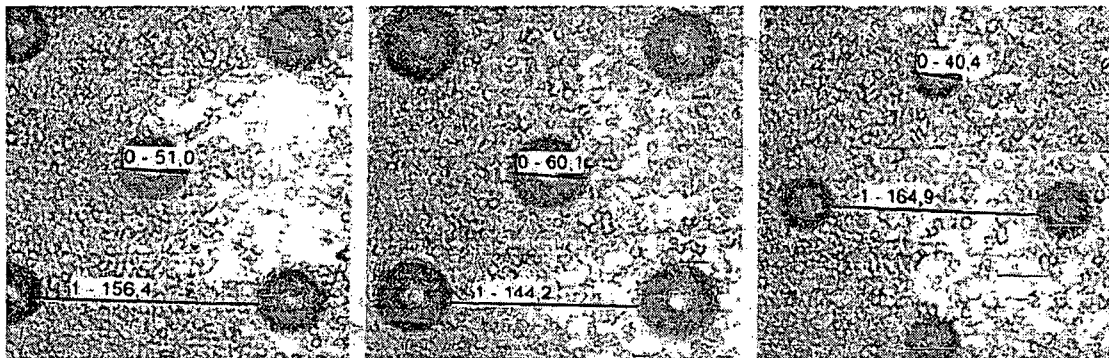


Figure 4

Fig. 4 pictures the applied pattern on the substrate (PE).

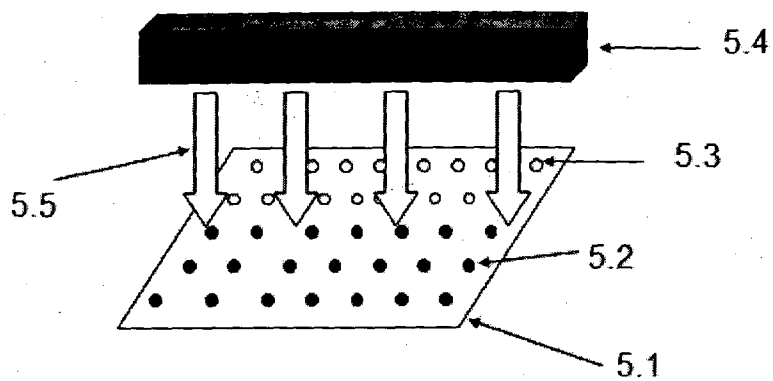
**Figure 5**

Fig. 5 illustrates the process step whereby the substrate with the patterns is exposed to laser light, the result is a substrate with imposed patterns (holes).

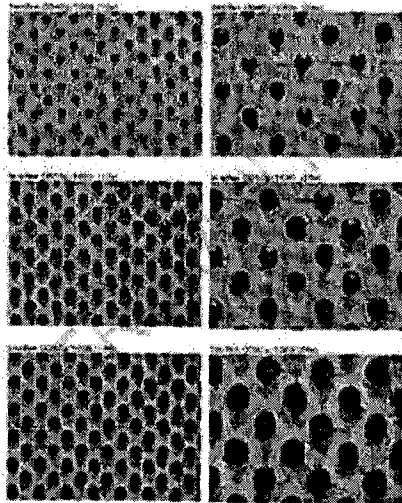
**Figure 6**

Fig. 6 pictures the substrate with imposed patterns (holes)