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(54) Title: LIQUID-IMPREGNATED SURFACES, METHODS OF MAKING, AND DEVICES INCORPORATING THE SAME

(57) Abstract: The invention is directed to an article with a liquid-impregnated surface, the surface having a matrix of features thereupon, spaced sufficiently close to stably contain a liquid therebetween or therewithin, and preferable also a thin film thereupon. The surface provides the article with advantageous non- wetting properties. Compared to previous non- wetting surfaces, which include a gas (e.g., air) entrained within surface textures, these liquid-impregnated surfaces are resistant to impalement and frost formation, and are therefore more robust.

