

(19) **United States**(12) **Patent Application Publication****Lin et al.**(10) **Pub. No.: US 2023/0232333 A1**(43) **Pub. Date:****Jul. 20, 2023**(54) **CONTROL METHOD FOR NETWORK
DISCONNECTION DURING SCREEN OFF
AND MOBILE DEVICE**(52) **U.S. Cl.**CPC ... *H04W 52/0261* (2013.01); *H04W 52/0254*
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ABSTRACT(72) Inventors: **Chieh-Hung Lin**, Taipei (TW);
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The disclosure provides a control method for network disconnection during screen off and a mobile device. The control method is applicable to a mobile device, and includes: setting a network restriction list based on a plurality of applications of the mobile device, where an application run in a background in the applications is excluded from the network restriction list; determining, based on a system status of the mobile device, whether the system status meets a trigger condition, where the trigger condition is that a screen of the mobile device is off for more than a preset time, and there is no external power supply; and starting a network disconnection mechanism when the trigger condition is met, to restrict network connections of the applications in the network restriction list, and maintaining the network connections when the trigger condition is not met.

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