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(56) Documents Cited:

US 20180211038 A1 US 20170132635 A1 US 20170034197 A1 US 20150381637 A1

US 20140047544 A1

KHARRAZ et al. "Cutting the gordian knot: A look under the hood of ransomware attackes. "In: International Conference on Detection of Intrusions and Malware, and Vulnerability Assessment. 23 June 2015 (23.06.2015) Retrieved on 05 January 2020 (05.01.2020)

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- (54) Title of the Invention: Cryptocurrency based malware and ransomware detection systems and methods Abstract Title: Cryptocurrency based malware and ransomware detection systems and methods
- (57) Cryptocurrency based malware and ransomware detection systems and methods are disclosed herein. An example method includes analyzing a plurality of malware or ransomware attacks to determine cryptocurrency payment address of malware or ransomware attacks, building a malware or ransomware attack database with the cryptocurrency payment addresses of the plurality of malware or ransomware attacks, identifying a proposed cryptocurrency transaction that includes an address that is included in the malware or ransomware attack database, and denying the proposed cryptocurrency transaction

