CLAIMS

~~What is claimed is:~~

1. A parental control method comprising employing at least one hardware processor of a computer system to:

analyze an image transmitted as part of an electronic conversation between a minor and another party to determine whether the image shows a physical item and to identify a type of the physical item ~~selected from a group consisting of a bank card, a social security card, and an identity document~~, wherein analyzing the image comprises employing a neural network to determine a plurality of scores, wherein the neural network is trained to identify distinct visual features of the physical item, wherein each score of the plurality of scores indicates whether the image shows a distinct visual feature of the physical item, wherein types of physical items identifiable by the neural network include a bank card, a social security card, and an identity document; and

in response, when the image shows the physical item, transmit a parental notification (24) to a parental reporting device (14) identified from a plurality of devices according to the minor, the parental notification indicating that the minor has disclosed confidential information and indicating the type of the physical item.

2. The method of claim 1, wherein determining whether the image shows the physical item comprises determining a likelihood that the image shows a magnetic stripe of ~~the~~ a bank card.

3. The method of claim 1, wherein determining whether the image shows the physical item comprises determining a likelihood that the image shows an embedded bank card microchip.

4. The method of claim 1, wherein determining whether the image shows the physical item comprises determining a likelihood that the image shows a handwritten signature.

5. The method of claim 1, wherein determining whether the image shows the physical item comprises determining a likelihood that the image shows a logo of a credit card company.

6. The method of claim 1, wherein determining whether the image shows the item comprises determining a likelihood that the image shows a bank card number.

~~7. The method of claim 1, wherein determining whether the image shows the physical item comprises:~~

~~employing a neural network to determine a plurality of scores, each score of the plurality of scores indicating whether the image shows a distinct visual feature of the bank card; and~~

~~determining whether the image shows the physical item according to the plurality of scores.~~

~~8. The method of claim 1, wherein the parental notification further indicates a type of the physical item.~~

~~9.~~7.The method of claim 1, wherein the parental notification further includes a description of a risk associated with the disclosure of confidential information, and advice on mitigating the risk, the advice being determined according to the type of physical item.

~~10.~~8. A computer system comprising at least one hardware processor configured to execute an image processor (58) and a parental notification dispatcher (59), wherein:

the image processor (58) is configured to analyze an image transmitted as part of an electronic conversation between a minor and another party to determine whether the image shows a physical item and to identify a type of the physical item ~~selected from a group consisting of a bank card, a social security card, and an identity document~~, wherein analyzing the image comprises employing a neural network to determine a plurality of scores, wherein the neural network is trained to identify distinct visual features of the physical item, wherein each score of the plurality of scores indicates whether the image shows a distinct visual feature of the physical item, wherein types of physical items identifiable by the neural network include a bank card, a social security card, and an identity document; and

the parental notification dispatcher (59) is configured, in response to the image processor determining that the image shows the physical item, to transmit a parental notification (24) to a parental reporting device (14) identified from a plurality of devices according to the minor, the parental notification indicating that the minor has disclosed confidential information and indicating the type of the physical item.

~~11.~~9. The computer system of claim 10, wherein determining whether the image shows the physical item comprises determining a likelihood that the image shows a magnetic stripe of the bank card.

~~12.~~10. The computer system of claim 10, wherein determining whether the image shows the physical item comprises determining a likelihood that the image shows an embedded bank card microchip.

~~13.~~11. The computer system of claim 10, wherein determining whether the image shows the physical item comprises determining a likelihood that the image shows a handwritten signature.

~~14.~~12. The computer system of claim 10, wherein determining whether the image shows the physical item comprises determining a likelihood that the image shows a logo of a credit card company.

~~15.~~13. The computer system of claim 10, wherein determining whether the image shows the physical item comprises determining a likelihood that the image shows a bank card number.

~~16. The computer system of claim 10, wherein:~~

~~the image processor comprises a neural network trained to output a plurality of scores, each score of the plurality of scores indicating whether the image shows a distinct visual feature of the bank card; and~~

~~the image processor is configured to determine whether the image shows the physical item according to the plurality of scores.~~

~~17. The computer system of claim 10, wherein the parental notification further indicates a type of the physical item.~~

~~18.~~14. The computer system of claim 10, wherein the parental notification further includes a description of a risk associated with the disclosure of confidential information, and advice on mitigating the risk, the advice being determined according to the type of physical item.

~~19.~~15. A non-transitory computer-readable medium storing instructions which, when executed by at least one hardware processor of a computer system, cause the computer system to form an image processor (58) and a parental control notification dispatcher (59), wherein:

the image processor (58) is configured to analyze an image transmitted as part of an electronic conversation between a minor and another party to determine whether the image shows a physical item and to identify a type of the physical item ~~selected from a group consisting of a bank card, a social security card, and an identity~~

~~document~~, wherein analyzing the image comprises employing a neural network to determine a plurality of scores, wherein the neural network is trained to identify distinct visual features of the physical item, wherein each score of the plurality of scores indicates whether the image shows a distinct visual feature of the physical item, wherein types of physical items identifiable by the neural network include a bank card, a social security card, and an identity document; and

the parental notification dispatcher (59) is configured, in response to the image processor determining that the image shows the physical item, to transmit a parental notification (24) to a parental reporting device (14) identified from a plurality of devices according to the minor, the parental notification indicating that the minor has disclosed confidential information and indicating the type of the physical item.