



Here is the wooden case which contains the device. On the top of the case is a metal plate which bears the inscription "Presented by International Business Machines Corporation"



Here is the "rack" along with 20 vacuum tubes that can plug into it. Toward the rear of the top surface, are 10 (9 pin) sockets for the vacuum tubes. Immediately in front of each of these sockets, is a small, hand-blown bulb. You can see a 15-pin male connector protruding from the right hand side of the device. This is matched by a female connector on the left side....suggesting that these modules could be linked together. On the left side of the picture, you can see a cluster of gold-tipped wires that appear to be used, as in a plugboard, to make connections between individual pins of the vacuum tubes, and between the wires constituting a bus which connects the male and female connectors at the ends of the device. These gold-tipped wires fit neatly into the holes in a series of panels mounted toward the front of the upper surface of the device. There are a total of 22 of these panels on the front and upper surface of the device. Each of these panels has 8 rows of three holes into which the gold-tipped wires can be inserted.



Looking from underneath, you can see the wiring of the "rack". In the center is a gold-colored transformer. (SEC. 6.3 V.C.T. 10 A.) 7 yellow wires run from individual pins of each vacuum tube socket to one of the

plugboard panels. (The other 2 pins of each socket are connected to the power supply.) Each plugboard panel consists of 8 rows of 3 holes. There are 5 groupings of 3 of these panels, or a total of 15 panels, in a row on the upper surface of the device. There are 7 bus wires (not visible in this photo) leading between the male and female connectors at the 2 ends of the device, and also connecting to the center plugboard panel of each cluster of 3 plugboard panels. The other 2 plugboard panels of each cluster are the ones which are connected by the yellow wires to the vacuum tube sockets.