CLAIMS

1. A ~~System~~ system for connecting and/or disconnecting the power supply and/or data connection for refrigerated containers (3) in the port and/or storage and interchange field and/or on board ship, which container (3) is provided with at least one electrical connector (31, 21) for connection to a power supply and/or data transmission network,

characterized in that it includes ~~it includes~~ automated means for the electrical connection and disconnection of the said electrical connector (31, 21) to the said power supply and/or data transmission network, which means comprise at least one mechanical arm (1);

a switchboard (2) fixed to the container (3) and provided with at least one container side connector (23) suitable to connect to said connector (31) of the container (3); and

at least one mechanical arm side connector (21) suitable to connect with the power supply and/or data transmission network, since the container side connector (23) and the mechanical arm side connector (21) of the switchboard (2) are electrically connected to each other inside the switchboard (2);

wherein a movable connector (11) connected to the power supply and/or data transmission network is provided, which the movable connector (11) is moved by the mechanical arm (1) for coupling and/or decoupling of the movable connector (11) to the mechanical arm side connector (21) of the switchboard (2).

~~2. System according to claim 1, comprising a switchboard (2) fixed to the container (3) and provided with at least one container side connector (23) suitable to connect to said connector (31) of the container (3) and at least one mechanical arm side connector (21) suitable to connect with the power supply and/or data transmission network, since the container side connector (23) and the mechanical arm side connector (21) of the switchboard (2) are electrically connected to each other inside the switchboard (2).~~

~~3~~2. ~~System~~ The system according to claim 1, further comprising a switchboard (2') fixed and integrated in the container (3) and provided with at least one mechanical arm side connector (21) suitable to connect with the power supply and/or data transmission network.

~~4~~3. ~~System~~ The system according to one or more of the preceding claims, wherein the switchboard (2, 2') has a transmission unit via radio waves of ~~the~~ data received from the container (3).

~~5. System according to one or more of the preceding claims, wherein a movable connector (11) connected to the power supply and/or data transmission network is provided, which movable connector (11) is moved by the mechanical arm (1) for coupling and/or decoupling of the movable connector (11) to the mechanical arm side connector (21) of the switchboard (2).~~

~~6~~4. ~~System~~ The system according to claim ~~5~~1, wherein the movable connector (11) is connected to the power supply and/or data transmission network by means of an electric cable (15) wound on an automatic winder (14).

~~7~~5. ~~System~~ The system according to one or more of the preceding claims, wherein the mechanical arm (1) has a pointing system for identifying the position of the mechanical arm side connector (21) of the switchboard (2).

~~8. System according to one or more of the preceding claims, which system can be installed on a refrigerated container access structure, which access structure comprises a plurality of stations, each station being provided for a refrigerated container, wherein for at least part of the stations a dedicated mechanical arm (1) is provided for each station.~~

~~9~~6. ~~System~~ The system according to one or more of the preceding claims, wherein the mechanical arm (1) is translatable on at least two axes, preferably on the three axes and means for displacing the mechanical arm (1) are provided such that the mechanical arm (1) can be placed at each container (3) of a plurality of said containers.

~~107~~. ~~System~~ The system according to claim ~~96~~, wherein the mechanical arm (1) is provided at its free end with a gripping member for a said movable connector (11).

8. A refrigerated container storage structure comprising:

a system according to one or more of the preceding claims, wherein said system is installed on the refrigerated container storage structure; and

a plurality of stations, each station being provided for a refrigerated container, wherein for at least part of the stations, a dedicated mechanical arm (1) is provided for each station.