

ABSTRACT

A PC (10) connected to a low-voltage electricity supply system (9) via a mains plug (11) and a mains socket outlet (12), into which the said plug is plugged, exchanges messages with other apparatuses via the said electricity supply system by means of signals whose frequency is between 1 MHz and 40 MHz. In order to suppress high-frequency interference signals which are generated by further apparatuses which are connected to the low-voltage electricity supply system (9) via mains plugs (11') and further mains socket outlets (12'), arranged in local proximity to the said mains socket outlet (12), or which are produced by reflections of signals at open line ends, an adapter (1) is in each case interposed there, which adapter is plugged into the mains socket outlet (12') and into which adapter the mains plug (11') of the respective apparatus is plugged. The adapter (1) connects each pin of the mains plug (11') to a socket of the mains socket outlet (12'), inductor coils which block signals in the frequency range of the message transmission being situated, however, in the phase conductor and in the neutral conductor of the adapter (1).

(Figure 5)