

Title (en)
RING CIRCUIT WITH TRANSPORT LOOP AND CARD PROTECTION

Title (de)
RINGSCHALTUNG MIT TRANSPORTSCHLEIFEN- UND KARTENSICHERUNG

Title (fr)
CIRCUIT EN BOUCLE AVEC PROTECTION DE BOUCLE DE TRANSPORT ET DE CARTE

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Abstract (en)
[origin: WO9905825A1] The invention relates to a ring circuit with a working loop and a protection loop (tsw, twp) by means of which several network nodes (NK1, NK2, NK3, NK4) of a first network (SDH) are connected together. Each network node (NK1, NK2, NK3, NK4) has a working card and a protection card (W1, E1; W2, E2; W3, E3; W4, E4) which are adapted via an interface (tio) to exchange data between the loops (tsw, tsp) and a second network, for instance according to the digital plesiochronous hierarchy. The working and protection cards (W1, E1; W2, E2; W3, E3; W4, E4) have, on the loop side, a first and a second input (li1; li2) which can be connected to an output (lo) via a first switch (s) and a switching matrix (#). The working loop (tsw) is connected via the first input (li1) and the protection loop, via the second input (li2), to the working card and protection card (W1, E1; W2, E2; W3, E3; W4, E4) of a network node (NK1, NK2, NK3, NK4). The working loop (tsw) and the protection loop (tsp) start respectively at the output (lo) of the working card (W1; W2; W3; W4) and at the output (lo) of the protection card (E1; E2; E3; E4), directly or via a second or third switch (s1W, s2W, s3W, s4W ou s1E, s2E, s3E, s4E). The working and protection cards (W1, E1; W2, E2; W3, E3; W4, E4) can be easily made. In case of a failure of a working card or a protection card (W1, E1; W2, E2; W3, E3; W4, E4), there is no disruption whatsoever in the loop, the data of the two transport loops (tsw, tsp) remaining for this reason available on the neighbouring card.

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