and $g: C \to D$, their monoidal product $f \otimes g: A \times C \to B \times D$ is their conjunction:

 $f \otimes g : (A \times C)^{op} \times (B \times D) \rightarrow_{Pos} Bool,$

Definition (Monoidal product in **DP**). Given two design problems $f: A \longrightarrow B$

The diagrammatic representation of the monoidal product is reported in ??.

 $\langle \langle a, c \rangle^*, \langle b, d \rangle \rangle \mapsto f(a^*, b) \wedge g(c^*, d).$