$\left(\left(f \otimes g \right) \circ \operatorname{br}_{Y,U} \right)^{\star}(x,z) = = \left\langle \bigcup_{z' \in g^{\star}(z)} \uparrow z', \bigcup_{x' \in f^{\star}(x)} \uparrow x' \right\rangle.$