CLAIMS

1. A cooling device for optical fiber, comprising two portions, each portion comprising at least one receiving surface on which a half-channel is arranged so that once the two portions are contacted at their receiving surface the two portions form a main through-channel intended to receive the passing of the optical fiber, wherein each of the portions is a one-piece block of heat-conductive material and wherein at least one of the portions comprises a cylindrical secondary channel in fluid connection with a plurality of openings distributed along the half-channel of this portion to form a distribution chamber for heat-exchange fluid distributed to the plurality of openings.

2. The device according to claim 1 wherein the secondary channel is connected to the main channel via a plurality of passages, each connected to an opening of the main channel.

3. The device according to claim 2 wherein the ratio between the diameter of the secondary channel and the diameter of the plurality of openings is chosen so that the secondary channel forms a distribution chamber allowing the heat-exchange fluid to be injected in parallel into all the openings.

4. The device according to claim 2 or 3 wherein the ratio between the diameter of the secondary channel and the diameter of the plurality of openings is between 3 and 100.

5. The device according to any of claims 1 to 4 comprising an inlet for heat-exchange fluid in fluid connection with the secondary channel.

6. The device according to one of claims 1 to 5 wherein the heat-conductive material comprises aluminum.