

PATENT CLAIMS

- 5 1. Sheet material (1) for heat exchange between liquid and steam to cause phase change in the liquid and steam, the liquid being evaporated and the steam being condensed over a length of the sheet material (1), which sheet material (1) is folded to form a plurality of slits (21, 22) extending in the longitudinal direction of the sheet material (1), the folded sheet material (1) being arranged horizontally, which slits (21, 22) constitute the flow paths of the liquid and steam, the slits (22) for the liquid being closed at a bottom (B),

10 wherein the slits (21) for the steam, at each end of the folded sheet material (1) are sealed by an end seal (E), the slits (21) for the steam thereby being closed off to through-flow of the steam through the end seals (E), while the slits (22) for the liquid, through at least one seal (E, X), are fully or partly open for drainage of a residual liquid that has not evaporated over the length

15 of the folded sheet material (1), the liquid being delivered to an upper side of the folded sheet material (1) and the steam being delivered to an underside of the folded sheet material (1).
2. Sheet material according to claim 1, characterised in that walls in the slits (21, 22) are configured as plane surfaces, part circles, arcs or the like.
- 20 3. Sheet material according to any one of preceding claims 1-2, characterised in that the sheet material (1), over at least a part of its length and width, is configured with a plurality of stamped portions, which stamped portions are separated from each other by non-stamped portions.
- 25 4. Sheet material according to claim 3, characterised in that the stamping is in the form of continuous or discontinuous furrows or flutes, dots or a combination thereof.
5. Sheet material according to any one of preceding claims 1-4, characterised in that one or more spacers are arranged between one or more of the slits (21, 22).
- 30 6. Sheet material according to any one of preceding claims 1-5, characterised in that the end seal (E) is configured to seal slits (21, 22) for both the steam and liquid, the slits (21) for the steam and partly the slits (22) for the liquid, or only the slits (21) for the steam.
- 35 7. Sheet material according to any one of preceding claims 1-6, characterised in that the slits (21) for the steam are closed at a top (T) of the slit (21) for the steam, whilst the slits (22) for the liquid are closed at a bottom (B) of the slit (22) for the liquid.

8. Sheet material according to any one of preceding claims 1-7, characterised in that the end seal (E) in a lower area (23) is configured to seal the slits (21) for the steam, whilst the slits (22) for the liquid in the lower area (23) are open.