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(71) Applicant: **ALFA LAVAL CORPORATE AB** [SE/SE];
P. O. Box 73, S-221 00 Lund (SE).

(72) Inventors: **SJÖDIN, Per**; Östra Vallgatan 37 A, S-223 61
Lund (SE). **WALTER, Kristian**; Lyngby 221, S-247 99
Genarp (SE).

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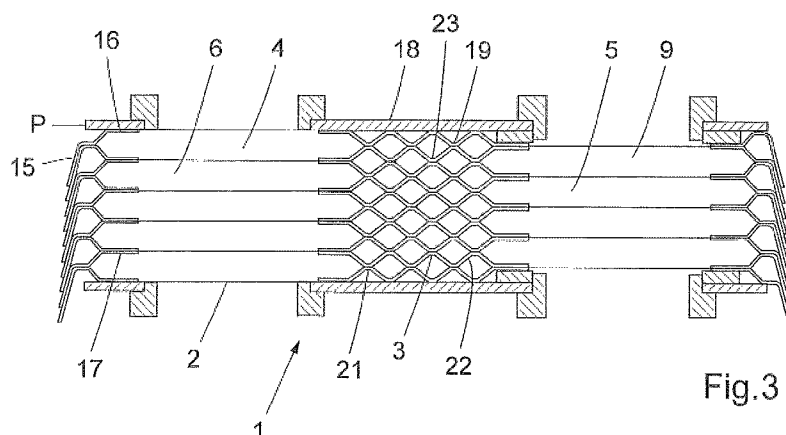


Fig.3

(57) Abstract: The invention relates to a method for producing a permanently joined plate heat exchanger (1) comprising a plurality of metal heat exchanger plates (2) having a solidus temperature above 1100 °C, provided beside each other and forming a plate package (3) with first plate interspaces (4) for a first medium and second plate interspaces (5) for a second medium, wherein the first and second plate interspaces (4,5) are provided in an alternating order in the plate package (3), wherein each heat exchanger plate (2) comprises a heat transfer area (10) and an edge area (11) comprising bent edges (15) which extend around the heat transfer area (10), wherein a first surface (16) of the plates (2) forms a convex shape and a second surface (17) of the plates forms a concave shape wherein the heat transfer area (10) comprises a corrugation of elevations (18) and depressions (19), wherein said corrugation of the plates and the bent edges (15) are provided by pressing the plates. The invention also relates to a plate heat exchanger (1) produced by the method.