Abstract

This hot-pressing press tool, intended to be mounted on a press, comprises: - a first tool part (2) equipped with first means (29; 60) of attachment to a first press platen (12), - a second tool part (3) equipped with second means (13, 14; 60) of attachment to a second press platen (10), these two tool parts being mobile relative to one another between a distant position and a close-together position, in which they delimit a pressing chamber (300), - means (5) of heating the interior volume of the pressing chamber, - the first and second tool parts also being respectively equipped with a first and a second pressing member (28, 38), which members are able to apply a pressing force to opposite faces of an object that is to be pressed, received in the pressing chamber. According to the invention, the heating means are means of heating by optical radiation (5) and the tool further comprises concentration means (26, 28, 46) able to concentrate the energy of the radiation towards the said object. In that way, the optical radiation is directed at the entirety of the object that is to be pressed but, by contrast, no substantial proportion of this radiation passes outside the lateral edges of this object. A preferred, although not exclusive, use of this tool is the creation of solid-state lithium-ion batteries.

Fig. 12