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[Continued on nextpage]

(54) Title: METHOD FOR THE PRODUCTION OF AN ELEMENT SUBJECT TO WEAR, ELEMENT SUBJECT TO WEAR AND TEMPORARY AGGREGATION STRUCTURE TO PRODUCE SAID ELEMENT SUBJECT TO WEAR

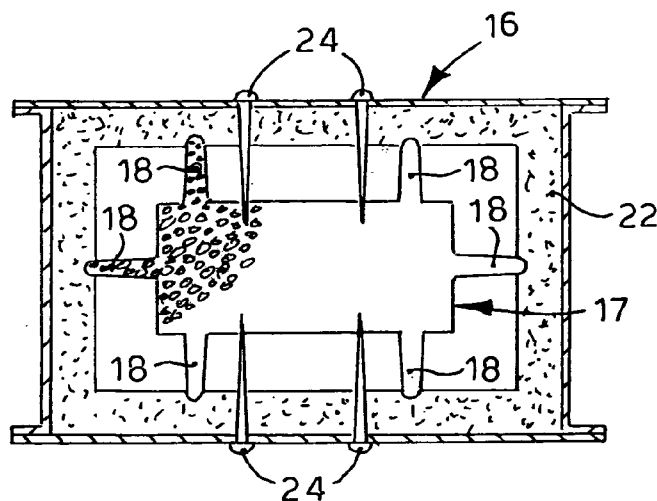


fig. 2a

(57) Abstract: Method for the production of an element subject to wear (10), comprising a metal matrix (14) and at least a core (12) of hard material. The method provides a first step in which a temporary aggregation structure (17) is prepared with at least partly open pores, which volatilize or in any case eliminate at least partly when subjected to heating. A second step in which, on the whole internal and external surface of said temporary aggregation structure (17), a liquid mixture of a binder with metal powders which contain hard elements or their precursors is uniformly distributed. A third step in which the temporary aggregation structure (17) is deteriorated by means of a thermal action of controlled heating, so as to take at least part of the temporary aggregation structure (17) to evaporation, rendering free a volume inside the core (12), and to consolidate the mixture according to the conformation of the temporary aggregation structure (17). A fourth step in which the core (12) is disposed in a mold (16) so as to only partly occupy the free volume of the mold (16). A fifth step in which a molten metal material is cast in the mold (16), which metal occupies the free volume and the volume that has been made free, both inside and outside the core (12), so as to anchor to the latter and thus form a single body.



WO 2012/004654 A8

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