

Title (en)  
Method and apparatus for manufacturing moulded articles

Title (de)  
Verfahren und Vorrichtung zur Herstellung von Formteilen

Title (fr)  
Procédé et dispositif pour fabriquer des articles moulés

Publication  
**EP 0908281 B1 20040602 (DE)**

Application  
**EP 97117550 A 19971010**

Priority  
EP 97117550 A 19971010

Abstract (en)  
[origin: EP0908281A1] The material mixture is within an enclosed press mold (9), compressed in two stroke movements. During the first stroke, the mold (9) is closed so that the mixture is lightly compressed and, in the second stroke, is fully compressed. In an Independent claim the press has a long tube (1) containing a press piston (2) with a longitudinal movement within it. A radial filling opening (3) is at the press mold (9), together with a number of other openings (5) to deliver hot gas or steam into the mold from at least one reservoir collection channel (6). The movements of the press piston (2) are controlled to give a light pressure stroke followed by a higher pressure stroke. The hot gas or steam is fed into the press mold after the first press stroke movement. After the second press stroke, the compressed material temp. is raised additionally by a heater (7). The press assembly is aligned at an angle or vertically. The press piston (2) is hollow, with a tubular extension into the press zone, and a feed channel at its trailing end for hot gas or steam and vapor escape openings at the leading end. The press piston has a structured surface (8) towards the compression zone of the mold. The filling system has a filling shaft (4), parallel to the press mold, with its lower section open to the press stroke zone and a horizontal filling plunger sliding towards the stroke movement zone of the press mold.

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CPC (source: EP US)  
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Cited by  
EP1752267A3; CN103659987A; DE102004010461A1; EP1752268A3; EP1925413A3; EP2425947A3; US8052842B2; WO0040384A1; WO2009094011A1; EP1752267A2; US6479002B1; US10414064B1; US11192274B2; EP2425947A2

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