

Title (en)

Modular pump.

Title (de)

Pumpe im Baukastensystem.

Title (fr)

Pompe modulaire.

Publication

EP 0088677 A1 19830914 (FR)

Application

EP 83400410 A 19830301

Priority

FR 8204278 A 19820309

Abstract (en)

1. A modular radial pump intended to be connected to several user devices, comprising a body (1) in which is rotatably mounted a shaft (2) comprising an excentric or control cam (3) and which is provided with a series of radial bores (1a) disposed circumferentially about the cam or the excentric, pistons (19) each of which is disposed in a bore (1a) and is subjected to the action of a return spring, and discharge valves (25) each assigned to one of the pistons, each bore (1a) being able to receive at will either a closure plug (32) or a pumping unit comprising an outer jacket (14) which comprises an outlet connection (27), in which is fixed a valve seat (22), a discharge valve (25) and its return spring (29) being disposed between the connection and the valve body, and in which a piston (19) and its return spring (21) are mounted, characterized in that the pumping unit (31) or the plug (32) comprise grooves which, when a pumping unit or a plug is positioned in a bore, are located opposite a groove of this bore, while forming a toric cavity, the different toric cavities being connected to the same supply duct (16) opening outwardly through a flow nozzle (17), a plastic material being flowed into the nozzle (17) after positioning of the pumping units (31) or of the plugs (32) so as to form simultaneously a series of keeper rings which interlock the pumping units and the plugs with the body.

Abstract (fr)

Pompe radiale modulaire comprenant un corps (1) dans lequel est monté à rotation un arbre (2) portant au moins un excentrique ou une came de commande (3) et un ou plusieurs pistons (19) disposés radialement autour de l'excentrique ou de la came. Le corps de pompe (1) est muni d'une série d'alésages radiaux (1a) disposés circonférentiellement autour de la came ou de l'excentrique (3); chaque alésage (1a) peut recevoir à volonté soit un bouchon d'obturation (32), soit une unité de pompage indépendante (31) comprenant une chemise extérieure (14), un piston (19) monté coulissant dans la chemise, un ressort de rappel (21) tendant à appliquer le piston (19) sur la came ou l'excentrique (3) et un clapet de refoulement (25).

IPC 1-7

F04B 1/04

IPC 8 full level

F04B 1/053 (2006.01)

CPC (source: EP)

F04B 1/053 (2013.01)

Citation (search report)

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