

Title (en)  
METERING PUMP MADE OF PLASTIC

Title (de)  
DOSIERPUMPE AUS KUNSTSTOFF

Title (fr)  
POMPE DE DOSAGE EN MATIÈRE PLASTIQUE

Publication  
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Application  
**EP 14708057 A 20140306**

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Abstract (en)  
[origin: WO2014161700A1] The invention relates to a disposable metering pump made of plastic for products having solid fractions. Said disposable metering pump has two rotors (10) which are coupled to each other by means of gears (11), can be driven in opposite directions, and are supported in a pump housing (5). Each rotor (10) has a rotor shaft, the rotor shaft ends (15) of which are supported in the walls of the pump housing (5). Each rotor (10) has two rotor blade walls (13), which are arranged diametrically opposite on the rotor shaft. One partially cylindrical rotor blade shoe (14) is formed at each of the peripheral ends of the rotor blade walls. The rotor blade shoes (14) lie against the cylindrical inner wall regions of the pump housing (5) in a sliding and sealing manner. The rotor blade walls (13) have concave recesses on both sides between the rotor shafts (12) and the rotor blade shoes (14), in each of which recesses an end edge of a rotor blade shoe of the adjacent rotor can mesh. The shaping of the rotor blade shoes and of the recesses is optimized with regard to minimal product residues.

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