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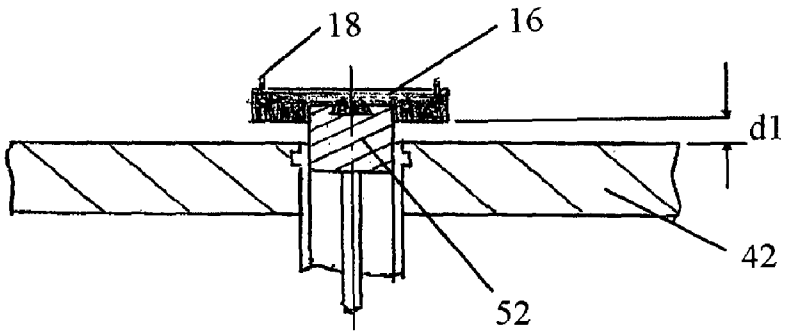
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(54) Title: TRANSFER MOLDING APPARATUS WITH CULL REMOVAL AND CULL REDUCTION



(57) Abstract: The present invention provides 2-plate mold (80) and 3-plate transfer mold (40, 40a, 40b), and a molding press (20, 20a). The 2-plate mold (80) and 3-plate mold (40, 40a) include a top mold plate (44) and a bottom mold plate (42). The bottom mold plate (42) has gangs of resin pots (50). In each resin pot (50) is disposed a plunger (52). The plunger's top face has a groove (54) which hold the cull (16) after each transfer molding cycle, thereby allowing the cull (16) retained on the plunger top face to be readily removed. In another embodiment, a discharge end of a pot sleeve (56) surrounding each plunger (52) has gates (58) to allow encapsulant to flow directly into mold cavities, thereby reducing volume of the culls, leading to reduction of waste material.