

Title (en)  
AUTOMATED MOLD MAKING SYSTEM

Publication  
**EP 0137586 A3 19860402 (EN)**

Application  
**EP 84304452 A 19840629**

Priority  
US 52741183 A 19830829

Abstract (en)  
[origin: EP0137586A2] A system for making foundry molds comprises the combination of a plurality of mold flasks (11) mounted on indexing means (12) for indexing the flasks (11) through a succession of different stations (A1-A3,B1-B3), and a mold-forming station (A1 ,B1) associated with the indexing means (12) for pre-filling one of said mold flasks (11) with sand, squeezing the sand within the flask (11) to form a mold with a pattern engaging at least one side thereof, and then drawing the pattern away from the mold. The forming station (A1,B1) includes a sand magazine (20) mounted for movement between a sand loader (10) and the forming station (A1,B1) so that said magazine (20) can be loaded with sand while a mold is being formed, pre-filling means (50,51,52,53,54,55) for supplying pressurised air to the top of the magazine (20) the forming station (A1,B1) to quickly discharge sand from the magazine (20) into a mold flask (11) positioned at the forming station (A1,B1), and a squeeze head (22) for forming the top surface of the mold during the squeezing operation at the forming station (A1,B1), said squeeze head (22) being movable in and out of the forming station (A1,B1) to permit the sand magazine (20) to enter said station (A1,B1). A mold discharge station (A3,B3) associated with said indexing means (12) received flasks (11) containing formed molds and removed the molds from the flasks (11) onto a mold platform (14a,14b) or a mold stack 13a, 13b) on the platform (14a,14b).

IPC 1-7  
**B22C 11/00**; **B22C 15/00**; **B22C 15/24**; **B22C 15/28**; **B22C 25/00**

IPC 8 full level  
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CPC (source: EP)  
**B22C 11/04** (2013.01); **B22C 15/28** (2013.01)

Citation (search report)  
• [A] DE 2602547 A1 19760916 - FISCHER AG GEORG  
• [A] DE 2713980 A1 19771020 - LARKIN SAM  
• [A] DE 2417885 A1 19750123 - LARKIN SAM  
• [A] DE 2919783 A1 19791206 - ESCO CORP  
• [AD] US 4156450 A 19790529 - HUNTER WILLIAM A [US]

Cited by  
CN107617733A

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**EP 0137586 A2 19850417**; **EP 0137586 A3 19860402**; JP S6068136 A 19850418

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