With a perpendicular fill, this impact-assisted device produces molds more quickly and with substantially improved surface quality, owing to the powered pre-compaction of the sand. This action results in greater uniformity of mold density and wall hardness, without sacrificing the accessibility and flexibility of a gravity fill machine.

The **JetSlinger**™ achieves a flask filling operation that compensates for mold quality limitations often caused by the flowability of the sand and pattern configuration during the high-pressure squeeze cycle.

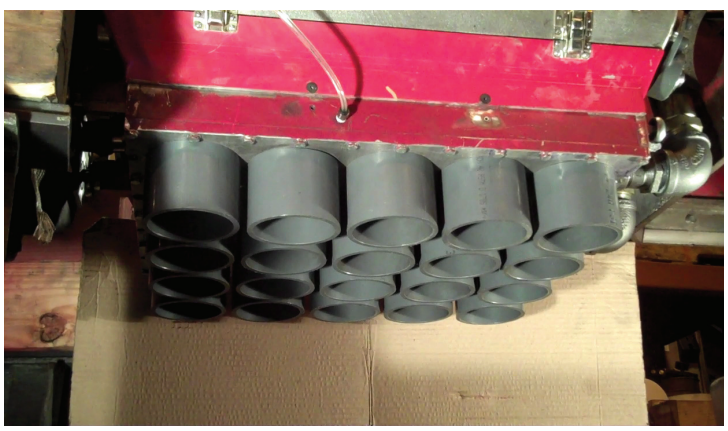
In contrast to the conventional blow fill machines, there is no shroud, seals or vented flask assemblies required, along with the attendant maintenance. Further, the JetSlingerTM allows far greater flexibility and access needed to produce various castings with the use of chaplets, ram-up cores and exothermic risers.

The basic operation of the **JetSlinger**™ is as follows:

1. Sand mixture loaded into hopper
2. Hopper gates open
3. Rotating Fillaerator blades aerate the mixture
4. Mixture is delivered into the Venturi action air acceleration manifold
5. Mixture under pressure dispersed (slung) through 20 nozzles into the flask
6. Flask fills with pre-compaction around pattern plate

The **JetSlinger**™ was invented by company president Bill Hunter and the U.S. Patent Number US7819168B2 has been issued.

For more details, please contact:




The United States of America

The Director of the United States Patent and Trademark Office

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

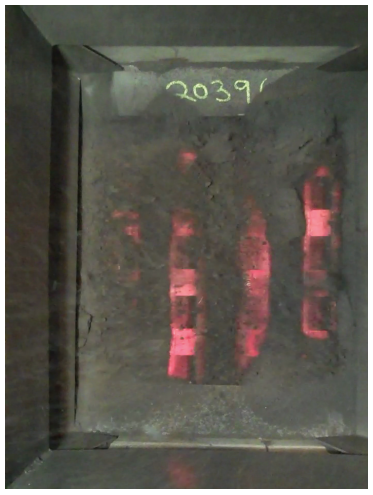
Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, or importing into the United States of America, products made by that process, for the term set forth in 35 U.S.C. 154(a)(2) or (c)(1), subject to the payment of maintenance fees as provided by 35 U.S.C. 41(b). See the Maintenance Fee Notice on the inside of the cover.

David J. Kappos

Director of the United States Patent and Trademark Office



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