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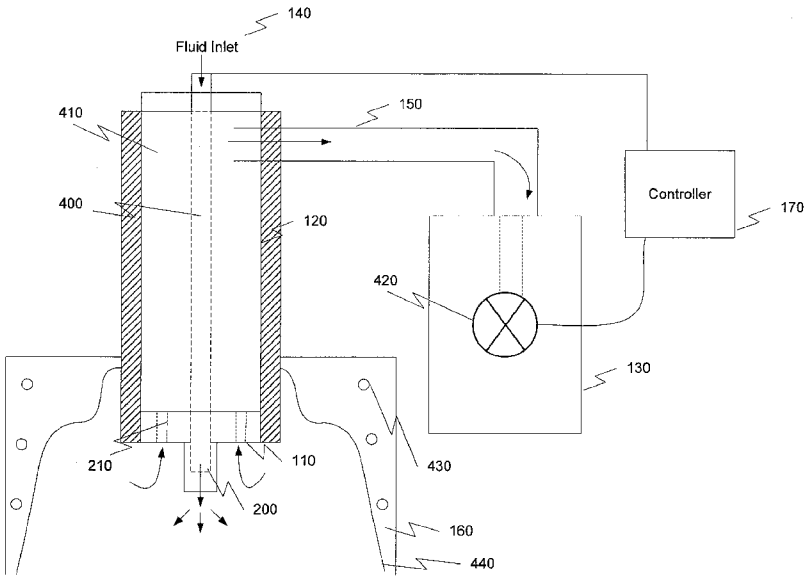

Figure 4

(57) Abstract: In various embodiments, devices, systems, and methods for blow molding plastics are provided. In particular, the present disclosure provides for devices, systems, and methods that are configured to create an internal cooling airflow, using conductive and convective cooling thermal properties, such that the cycle time for blow molding plastics is reduced. The decrease in cycle time provided for in accordance with the disclosed devices, systems, and methods are between, approximately 15 percent and 35 percent.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models
Japanese utility models and applications for utility models
(Chinese Patents and application for patent)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: blow, mold, internal cooling, supply, exhaust

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4615667 A1 (ROY; SIEGFRIED S.) 07 October 1986 See whole document	1-20
A	US 2007-0108668 A1 (GERALD HUTCHINSON et al.) 17 May 2007 See whole document	1-20
A	JP 2005-067206 A (HUSKY INJECTION MOLDING SYSTEMS INC) 17 March 2005 See whole document	1-20
A	US 3886243 A1 (UEMURA OSAMU et al.) 27 May 1975 See whole document	1-20

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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