

06/07/16

## Number of documents: 5

<a href="#">US5909829</a>	Vibratory filler for powders XEROX
<a href="#">US6347648</a>	Powder filling utilizing vibrofluidization XEROX
<a href="#">US5947169</a>	Oscillating valve for powders XEROX
<a href="#">US5685348</a>	Electromagnetic filler for developer material XEROX
<a href="#">EP-928743</a>	Pneumatic valve for toner filing systems XEROX

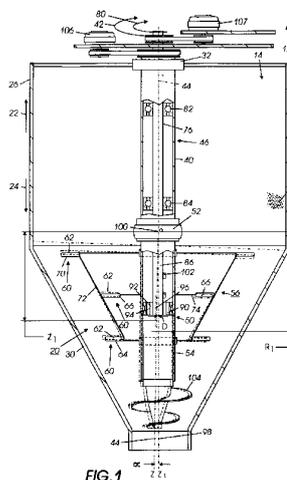
## Vibratory filler for powders US5909829

<ul style="list-style-type: none"> <li>• <b>Patent Assignee</b> XEROX</li> <li>• <b>Inventor</b> WEGMAN PAUL M VAYNSHTEYN MIKHAIL ABRAMOV OLEG Y RYABOV SERGEI D YUDIN YURI A KASHKAROV ALEXANDER G GERASIMOV ALEXANDER N KOUZMITCHEV VICTOR A</li> <li>• <b>International Patent Classification</b> B65B-001/08 B65B-037/04 G01F-013/00</li> <li>• <b>US Patent Classification</b> PCLO=222232000 PCLO=141065000 PCLX=141256000 PCLX=141286000 PCLX=222232000 PCLX=222241000</li> <li>• <b>CPC Code</b> B65B-001/08; B65B-037/04 G01F-013/00/6;</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Publication Information</b> US5909829 A 1999-06-08 [US5909829]</li> <li>• <b>Priority Details</b> 1997US-08823034 1997-04-01 1999US-09272545 1999-03-19</li> </ul>								
<ul style="list-style-type: none"> <li>• <b>Fampat family</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">US5909829</td> <td style="width: 10%; text-align: center;">A</td> <td style="width: 30%;">1999-06-08</td> <td style="width: 30%;">[US5909829]</td> </tr> <tr> <td>US6196278</td> <td style="text-align: center;">B1</td> <td>2001-03-06</td> <td>[US6196278]</td> </tr> </table> </li> </ul>		US5909829	A	1999-06-08	[US5909829]	US6196278	B1	2001-03-06	[US6196278]
US5909829	A	1999-06-08	[US5909829]						
US6196278	B1	2001-03-06	[US6196278]						

- **Abstract:**

(US5909829)

A method for filling a powder container is provided. The method includes the steps of placing a first powder container to be filled in filling relationship to a supply of powder in a vessel, mechanically exciting the powder in the vessel to improve its flow properties, dispensing powder from the vessel into the first container, removing the first container from the vessel, and placing a second container to be filled in filling relationship to the vessel.







## Electromagnetic filler for developer material

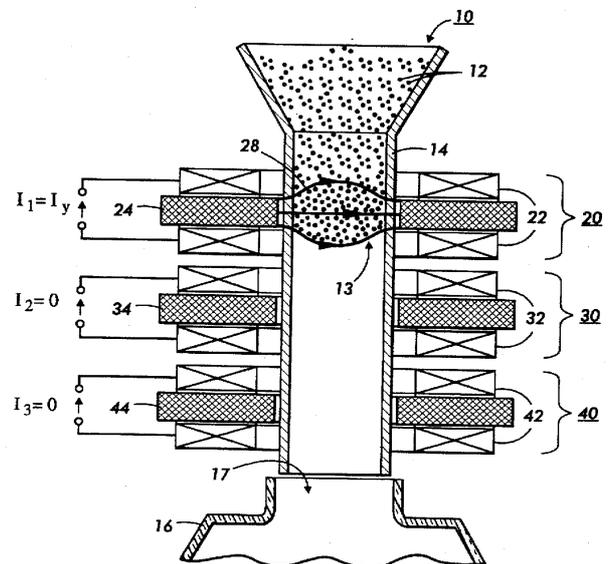
### US5685348

<ul style="list-style-type: none"> <li>• <b>Patent Assignee</b> XEROX</li> <li>• <b>Inventor</b> WEGMAN PAUL M VAYNSHTEYN MIKHAIL ABRAMOV OLEG Y RAYBOV SERGEI D YUDIN YURI A KASHKAROV ALEXANDER G GERASIMOV ALEXANDER N</li> <li>• <b>International Patent Classification</b> B65B-001/04 G03G-015/08</li> <li>• <b>US Patent Classification</b> PCLO=141002000 PCLX=053503000 PCLX=137909000 PCLX=141018000 PCLX=141129000</li> <li>• <b>CPC Code</b> B65B-001/04; Y10S-137/909</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Publication Information</b> US5685348 A 1997-11-11 [US5685348]</li> <li>• <b>Priority Details</b> 1996US-08690412 1996-07-25</li> </ul>								
<ul style="list-style-type: none"> <li>• <b>Fampat family</b> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">US5685348</td> <td style="width: 10%; text-align: center;">A</td> <td style="width: 20%;">1997-11-11</td> <td style="width: 40%;">[US5685348]</td> </tr> <tr> <td>JPH1073989</td> <td style="text-align: center;">A</td> <td>1998-03-17</td> <td>[JP10073989]</td> </tr> </table> </li> </ul>		US5685348	A	1997-11-11	[US5685348]	JPH1073989	A	1998-03-17	[JP10073989]
US5685348	A	1997-11-11	[US5685348]						
JPH1073989	A	1998-03-17	[JP10073989]						

- **Abstract:**

(US5685348)

A method and apparatus for filling a container with toner using a series of traveling magnetic fields to control the flow of toner from a supply of toner to the container. Initially, an empty container is placed under a fill tube through which the toner will be supplied to the container. In the filling process the traveling magnetic fields, which are supplied by turning on and off a series of solenoids, and gravity cause toner from the toner supply to move through the fill tube. When a solenoid is turned on toner particles are attracted to its magnetic field where a plug of toner is formed. The solenoids are controlled so that a discrete amount of toner is supplied in each on/off cycle of the solenoids. The solenoid on/off cycle is repeated until the container is filled with toner. When the container is filled, the appropriate solenoid is activated so that a plug of toner stops the flow of toner in the fill tube. The filled container is removed from the fill tube and an empty container is put in its place so that the solenoid on/off cycle may begin again.



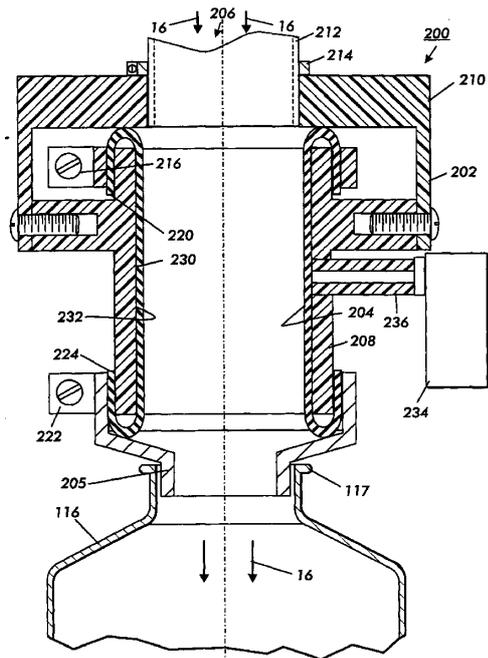
## Pneumatic valve for toner filing systems EP-928743

<ul style="list-style-type: none"> <li>• <b>Patent Assignee</b> XEROX</li> <li>• <b>Inventor</b> WEGMAN PAUL M VAYNSHTEYN MIKHAIL ABRAMOV OLEG Y RYABOV SERGEI D</li> <li>• <b>International Patent Classification</b> B65B-001/08 B65B-039/00</li> <li>• <b>CPC Code</b> B65B-039/00/1</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Publication Information</b> EP0928743 A1 1999-07-14 [EP-928743]</li> <li>• <b>Priority Details</b> 1998US-09004457 1998-01-08</li> </ul>								
<ul style="list-style-type: none"> <li>• <b>Fampat family</b></li> </ul> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">EP0928743</td> <td style="width: 33%;">A1</td> <td style="width: 33%;">1999-07-14</td> <td style="width: 33%;">[EP-928743]</td> </tr> <tr> <td>JPH11245901</td> <td>A</td> <td>1999-09-14</td> <td>[JP11245901]</td> </tr> </table>		EP0928743	A1	1999-07-14	[EP-928743]	JPH11245901	A	1999-09-14	[JP11245901]
EP0928743	A1	1999-07-14	[EP-928743]						
JPH11245901	A	1999-09-14	[JP11245901]						

• **Abstract:**

(EP-928743)

An apparatus for controlling filling of a container (116) from a hopper containing a supply of powder is provided. The apparatus includes a conduit (212) for guiding the powder from the hopper toward the container. The conduit is operably associated with the hopper. The apparatus further includes a pliable member (204) positioned at least partially within the conduit. The pliable member is positionable into a first position wherein a passageway is formed within the conduit and into a second position wherein the pliable member serves to block flow of powder through the conduit, whereby said pliable member may controllably permit and block the flow of powder thorough said conduit. <IMAGE>



**FIG. 1**