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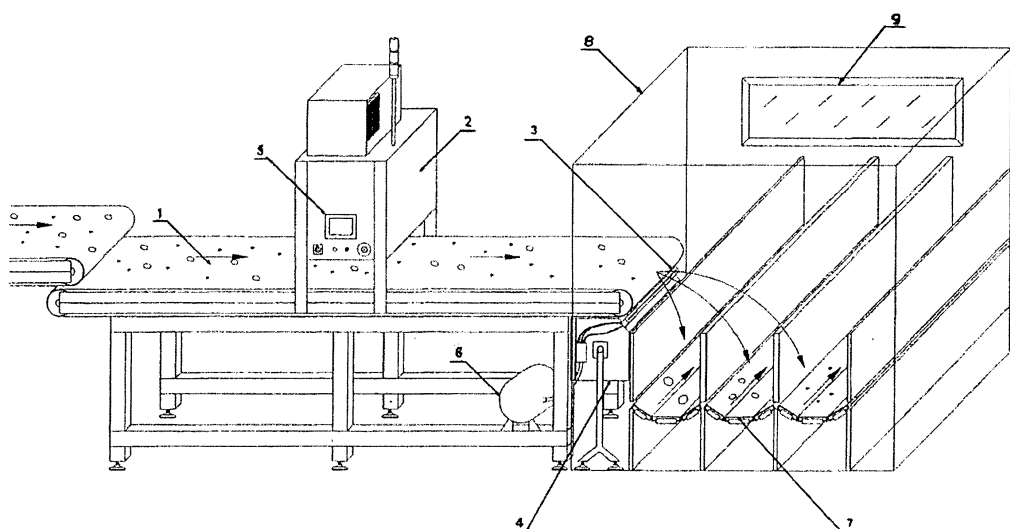
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(54) **Machine with artificial sight for automatic separation by colour of recyclable plastics, with multispectral sight**

(57) The machine with artificial vision for automatic separation by colour of recyclable plastic, with multispectral vision, which uses the ultraviolet, visible and infrared zones of the spectrum simultaneously, at wavelengths of less than 400nm, between 400 and 700nm, and greater than 700nm., obtaining for each piece of plastic analysed its spectrogram, which is specific to each type of plastic.

The machine as a whole is made up of a conveyer

belt (1) for the plastics to be analysed, a line module (2) where the multispectral lighting and vision systems are located for image intake, an electronic control module with tactile screen (5) where processing cards are located, a computer system that carries out the multispectral analysis of the pieces of plastic and an electronic interface for controlling the expulsion electrovalves (4), a blowing system (3), and material conveyer belts (7) for extracting the main flow and the separated components.



**FIG. 1**



## EUROPEAN SEARCH REPORT

Application Number  
EP 08 00 4056

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 20 September 2010	Examiner Golombek, Gregor
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>&amp; : member of the same patent family, corresponding document</p>			

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EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
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EP 08 00 4056

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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