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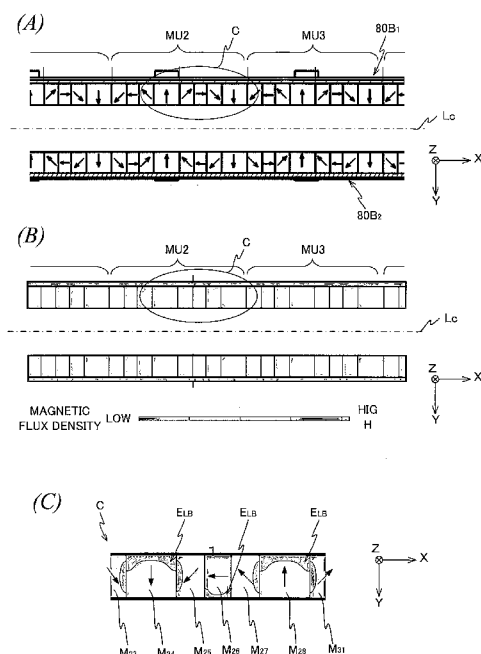
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[Continued on next page]

(54) Title: MOTOR, DESIGN METHOD AND MANUFACTURING METHOD OF MOTOR, STAGE DEVICE, AND EXPOSURE APPARATUS

Fig. 3



(57) Abstract: A distribution (E_{LB}) of an element to improve coercivity for each magnet is decided, based on analysis results of magnetic fields within a plurality of magnets (M_{26} and the like), and by structuring each of the plurality of magnets based on the distribution, it becomes possible to realize a permanent magnet having strong magnetic force and high heat-resisting performance whose residual magnetic flux density and coercivity are both improved, using a small amount of an element which improves coercivity. And, by designing a magnet unit using the permanent magnet, and a motor using the magnet unit, it becomes possible to obtain a motor with high performance.



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