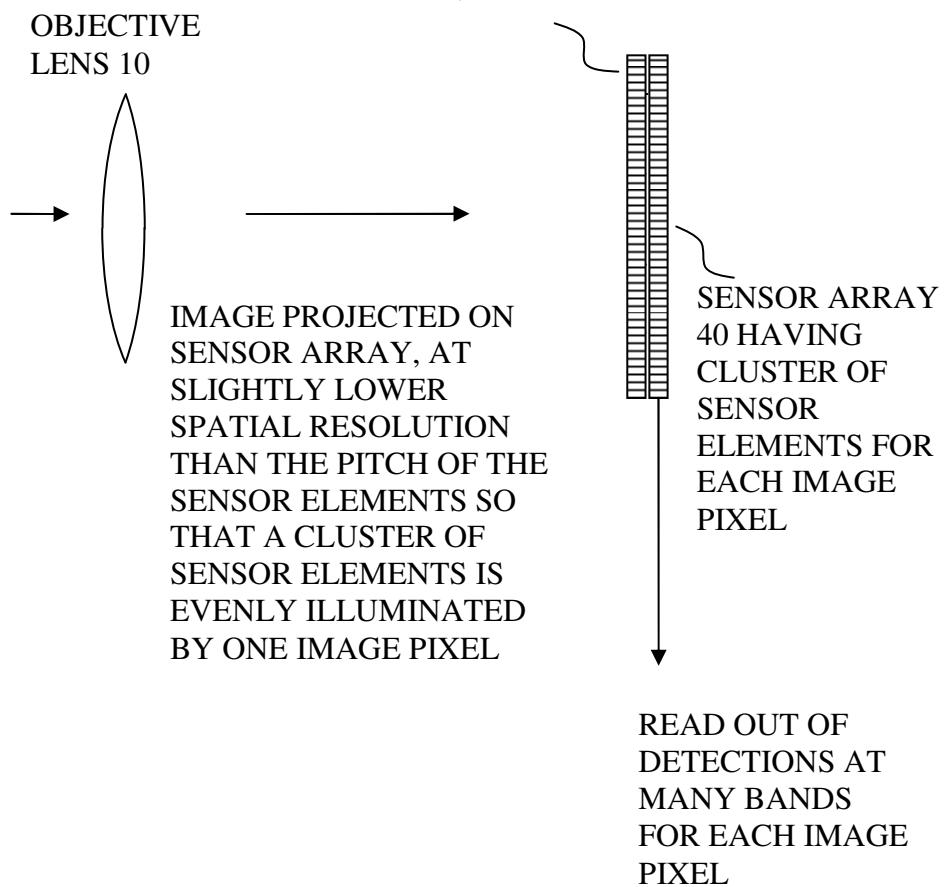
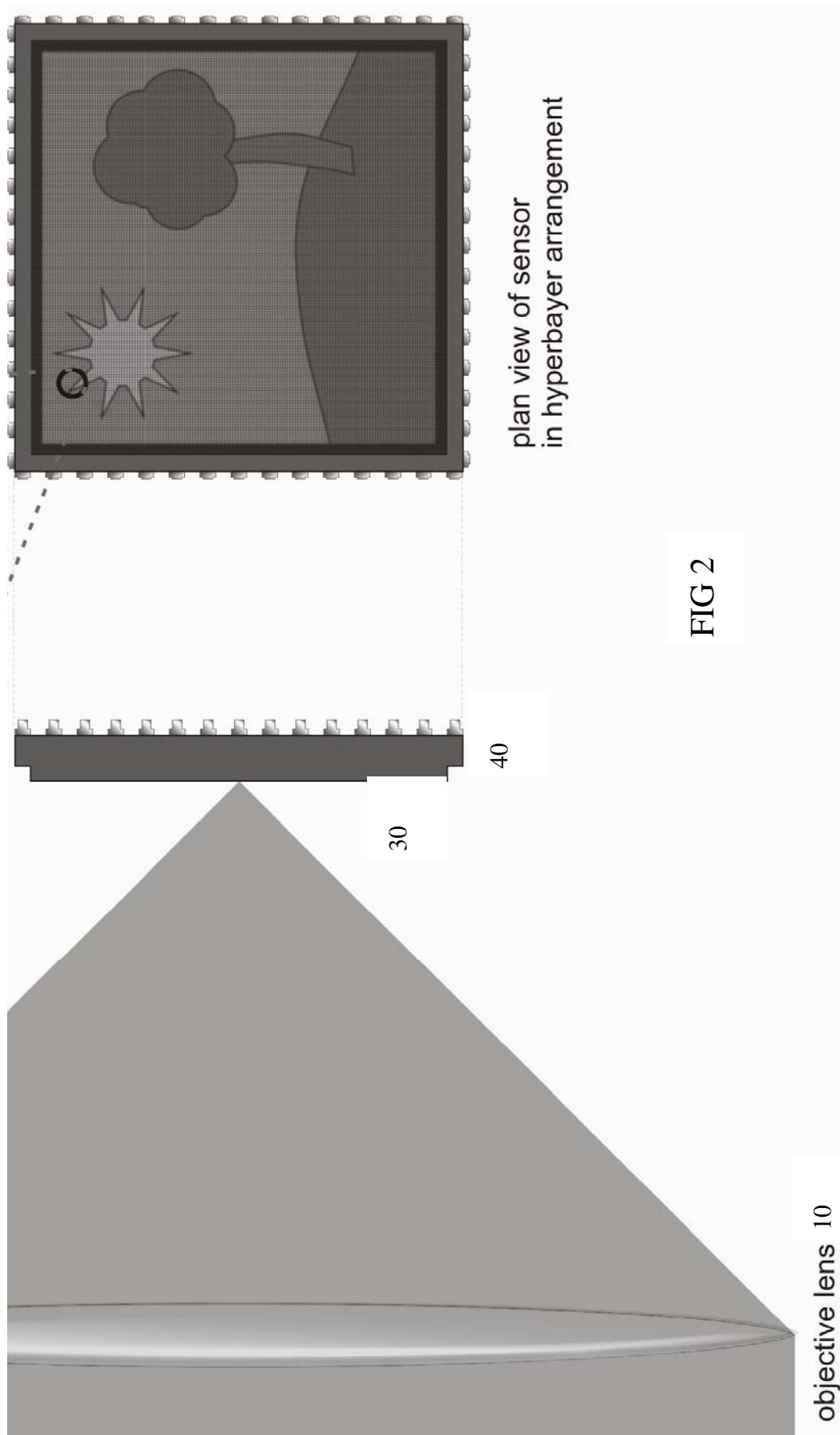


FIG 1

MOSAIC OF FABRY
PEROT FILTERS 30
HAVING DIFFERENT
PASSBANDS, ONE FOR
EACH SENSOR
ELEMENT



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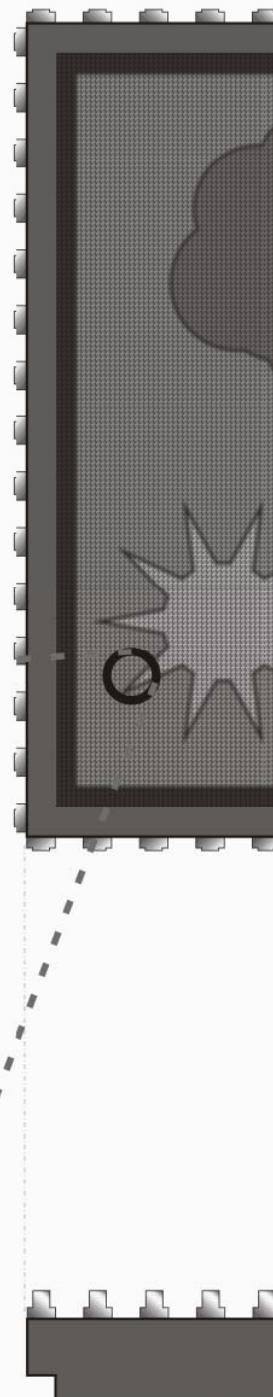
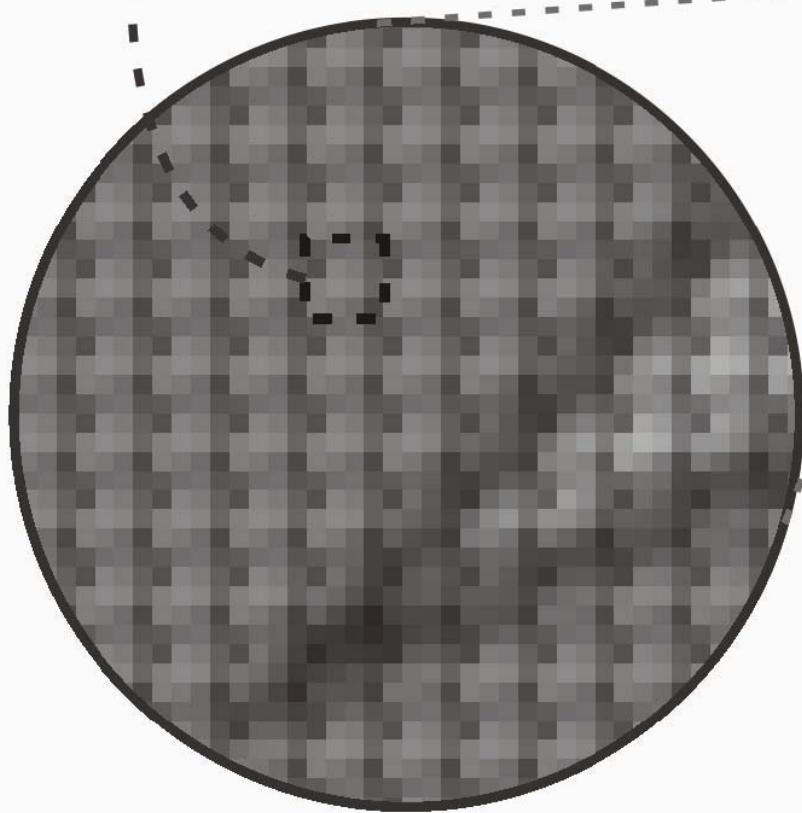


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FIG 3

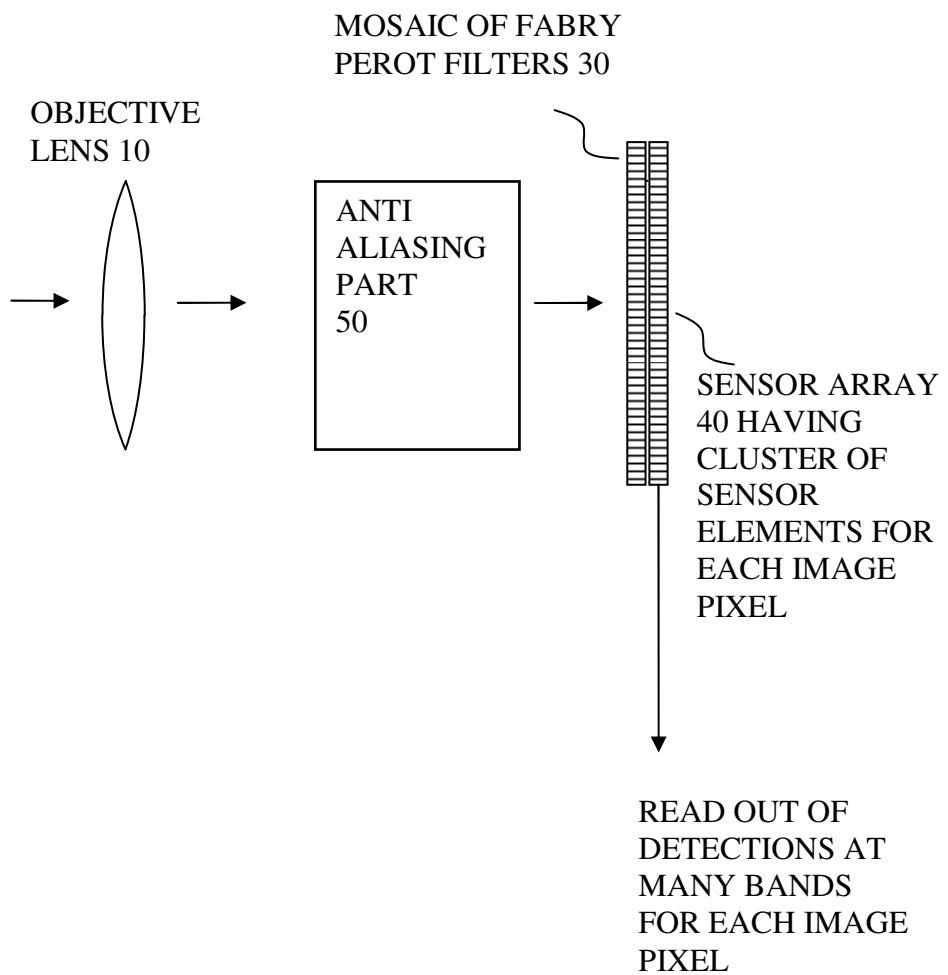
| | | | |
|----|----|----|----|
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 |

filter layout cluster
repeated over entire sensor



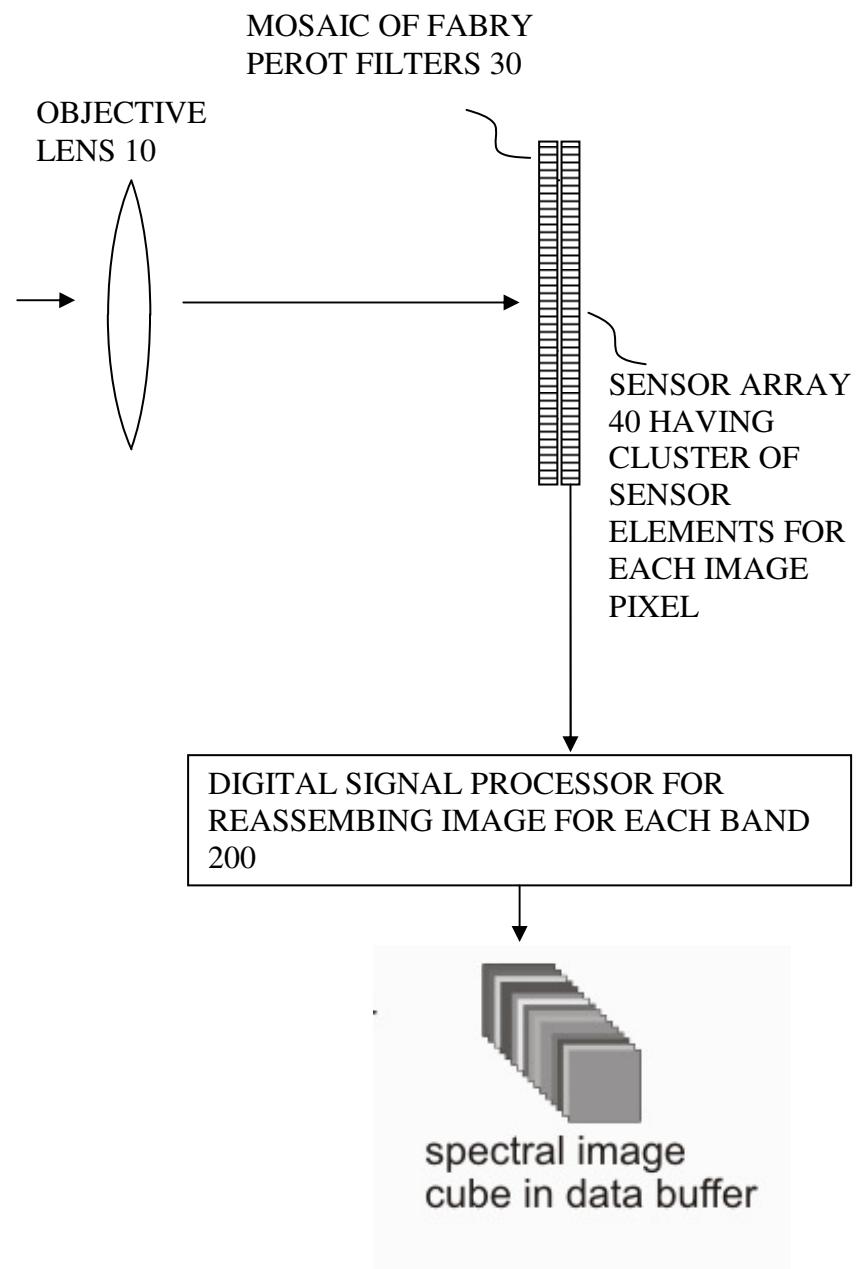
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FIG 4



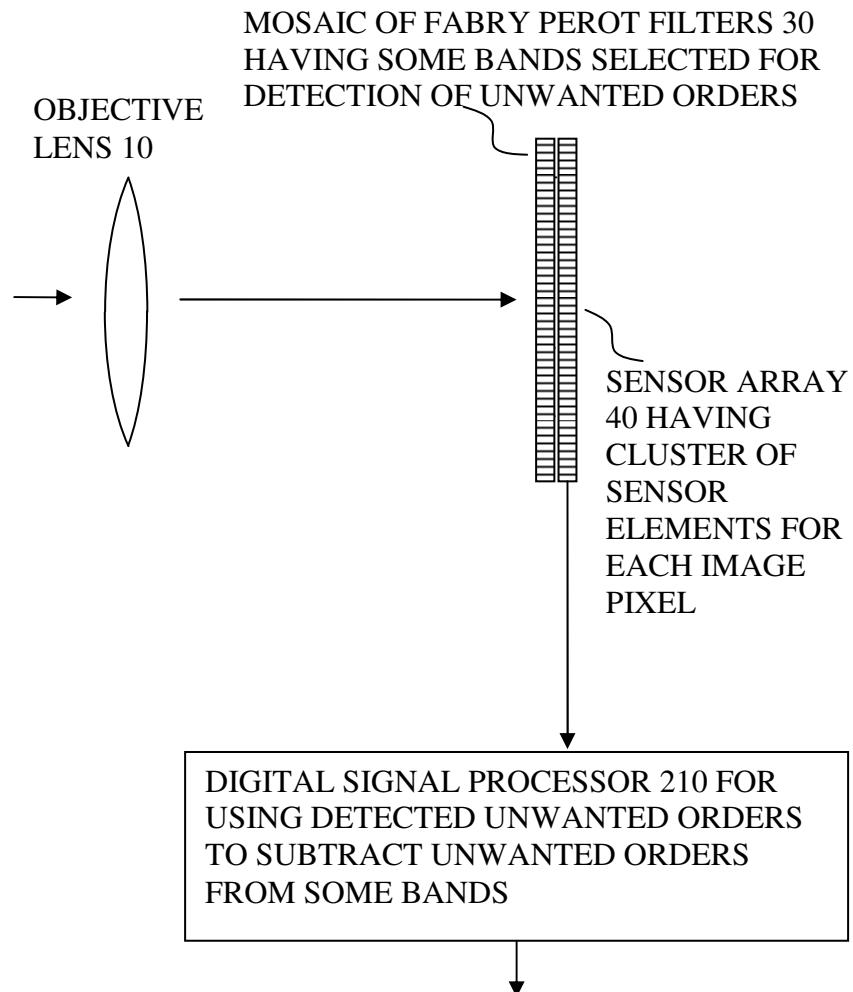
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FIG 5



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FIG 6



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FIG 7

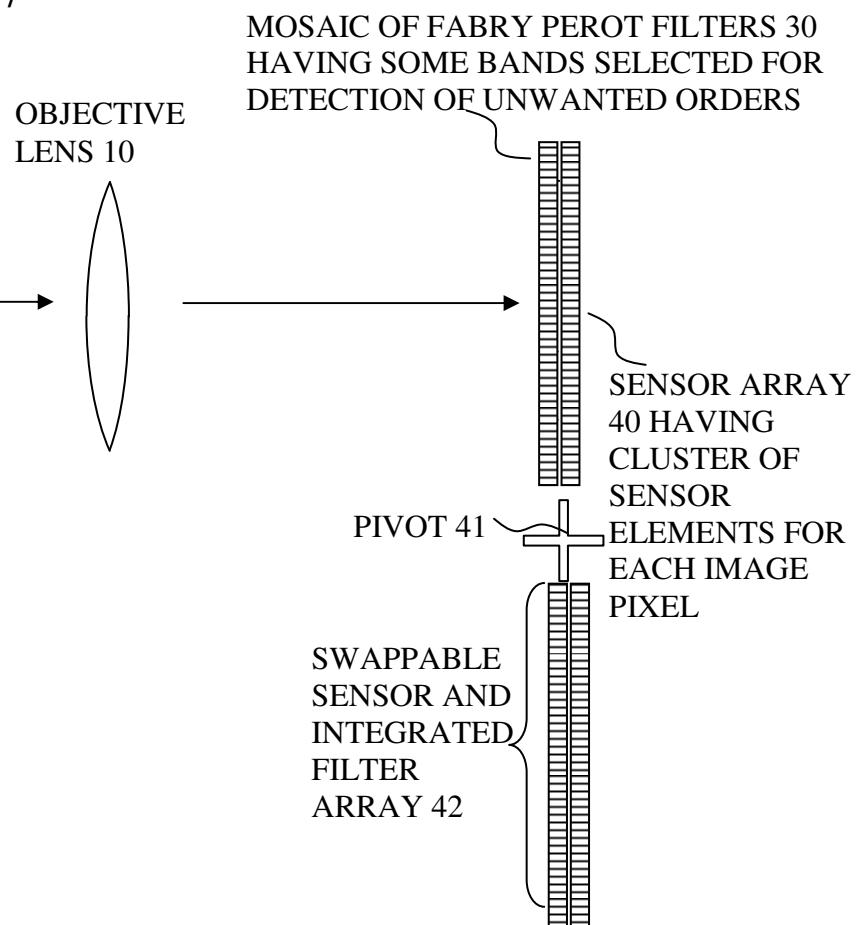


FIG 8

Layout basis
repeated over sensor



Band selection:

- 1 500nm
- 2 550nm
- 3 600nm
- 4 650nm
- 5 665nm
- 6 670nm
- 7 685nm
- 8 700nm
- 9 750nm

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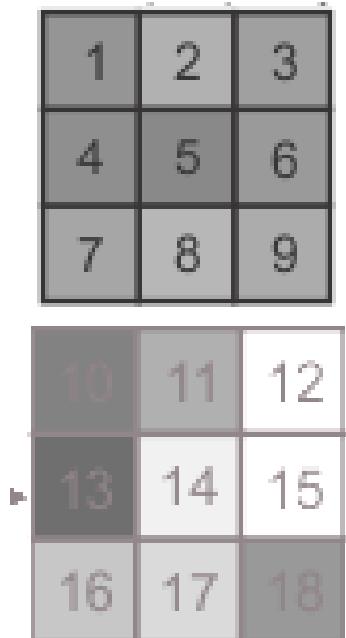
SELECTION OF BANDS REPEATED
OVER PERIPHERAL PART OF SENSOR ARRAYDIFFERENT SELECTION OF BANDS REPEATED
OVER CENTRAL PART OF SENSOR ARRAY

FIG 9

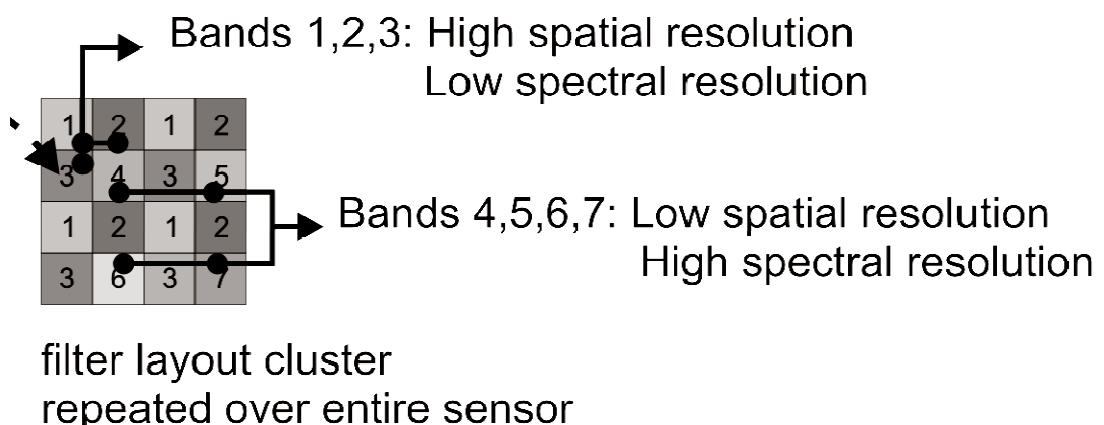


FIG 10

FIG 11

MOSAIC OF FABRY
PEROT FILTERS 30
HAVING DIFFERENT
PASSBANDS, ONE FOR
EACH SENSOR
ELEMENT

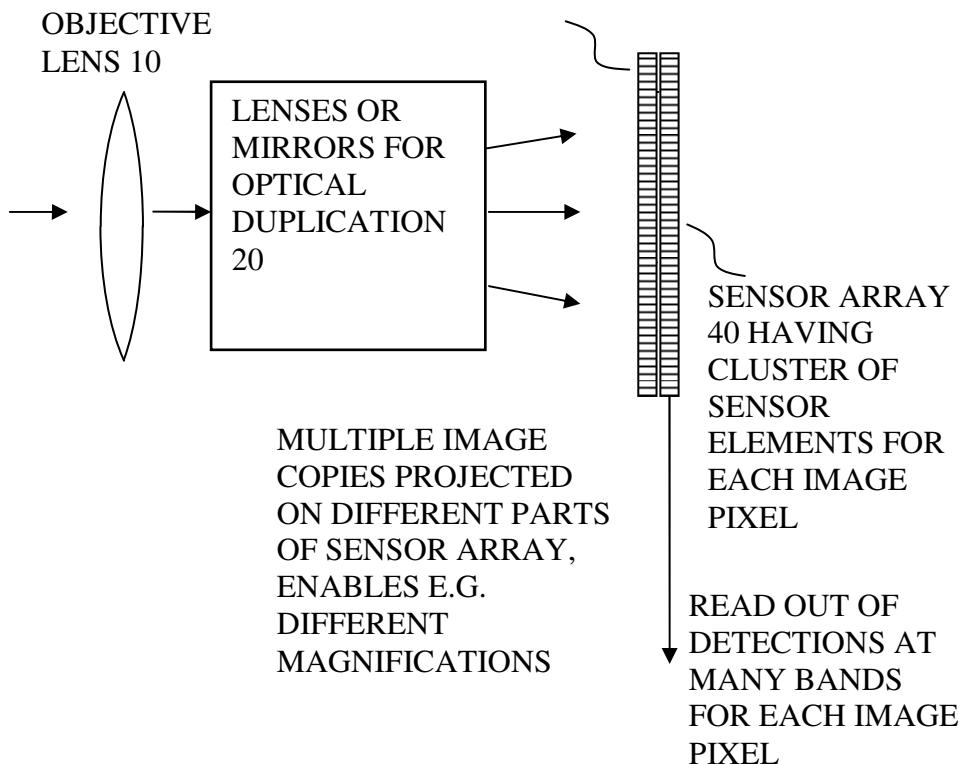


FIG 12

410 READ OUT THE DETECTIONS OF EACH IMAGE PIXEL AT THE DIFFERENT PASSBANDS FROM THE SENSOR ARRAY IN ONE FRAME TIME

420 PROCESS THE READ OUT TO ASSEMBLE IMAGE CUBE OF IMAGE COPIES AT THE DIFFERENT PASSBANDS

FIG 13

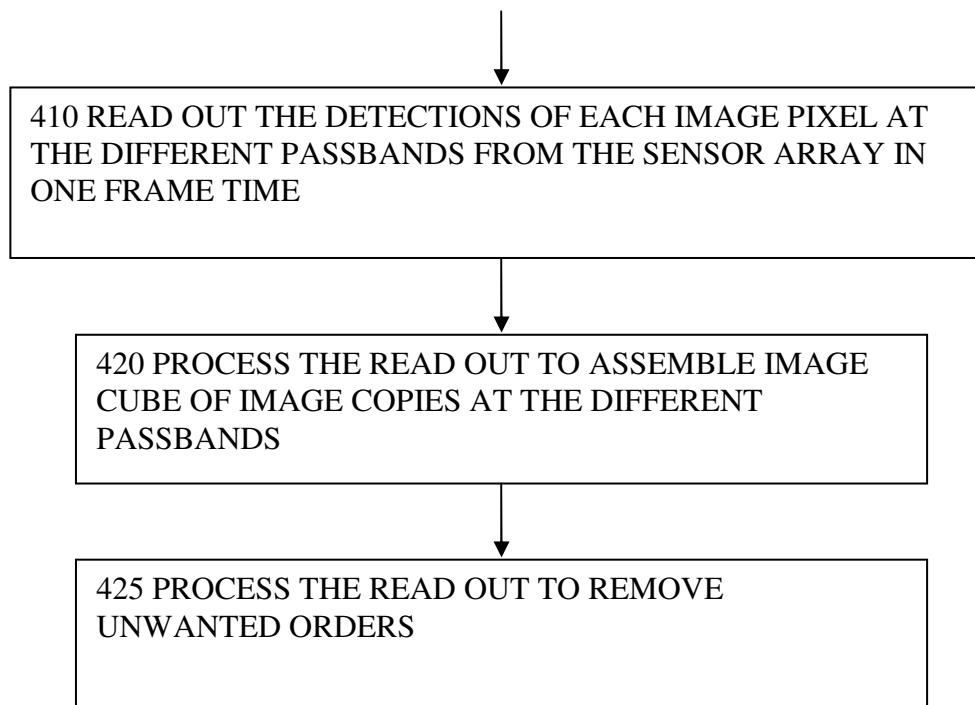


FIG 14

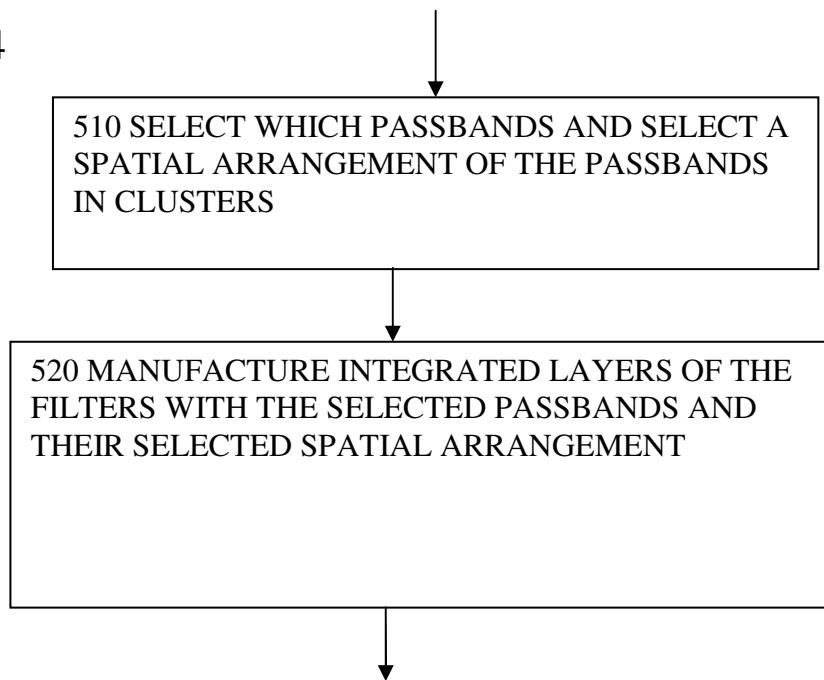


FIG 15

515 SELECT WHICH PASSBANDS AND SELECT SPATIAL ARRANGEMENT OF THE PASSBANDS TO GIVE VARIATION OF WHICH PASSBANDS ARE DETECTED IN DIFFERENT PARTS OF THE IMAGE CUBE, OR VARIATION OF SPATIAL OR SPECTRAL RESOLUTION OF THE DETECTION IN DIFFERENT PARTS OF THE IMAGE CUBE.

520 MANUFACTURE FILTERS WITH THE SELECTED PASSBANDS AND THEIR SELECTED SPATIAL ARRANGEMENT

FIG 16

