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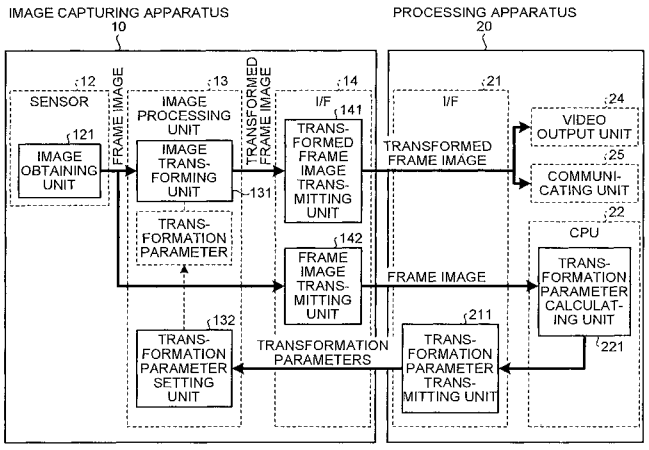
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(54) **Title**: VIDEO PROCESSING APPARATUS, VIDEO PROCESSING SYSTEM, AND VIDEO PROCESSING METHOD

FIG.5



(57) **Abstract**: A video processing apparatus includes an image capturing apparatus and a processing apparatus connected to the image capturing apparatus. The image capturing apparatus includes an image obtaining unit that obtains a frame image; a frame image transmitting unit that transmits the frame image to the processing apparatus; a transformation parameter setting unit that sets transformation parameters received from the processing apparatus in the image capturing apparatus,; an image transforming unit that applies an image transformation to the frame image using the transformation parameters thus set; and a transformed frame image transmitting unit that transmits a transformed frame image to the processing apparatus. The processing apparatus includes a transformation parameter calculating unit that calculates the transformation parameters for the image transformation, using the frame image received from the image capturing apparatus; and a transformation parameter transmitting unit that transmits the transformation parameters to the image capturing apparatus.

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