



## TECHNOLOGY

# Effective and Efficient Collusion-Resistant Fingerprinting for Multimedia

## OVERVIEW

Digital fingerprinting is an effective method to identify users who might try to redistribute digital content, such as music, images, video and software. These fingerprints are typically embedded in the content using watermarking techniques that are designed to be robust to a variety of attacks. A cheap and effective attack against digital fingerprinting is collusion, where several differently marked copies of the same content are combined to disrupt the underlying fingerprint. It is therefore important to design fingerprints that are not only able to resist collusion, but also identify the colluders.

This invention facilitates the protection of the multimedia by providing a proactive tracing ability against collusion attack. It will prevent illegal redistribution in commerce and/or discourage information leaking from government and the military.

## CONTACT INFO

UM Ventures  
0134 Lee Building  
7809 Regents Drive  
College Park, MD 20742  
Email: [umdtechtransfer@umd.edu](mailto:umdtechtransfer@umd.edu)  
Phone: (301) 405-3947 | Fax: (301) 314-9502

## Additional Information

### INSTITUTION

University of Maryland, College Park

### PATENT STATUS

Patent(s) pending

### LICENSE STATUS

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### CATEGORIES

- Information Technology

## EXTERNAL RESOURCES

- [US Patent 7,814,564](#)

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