

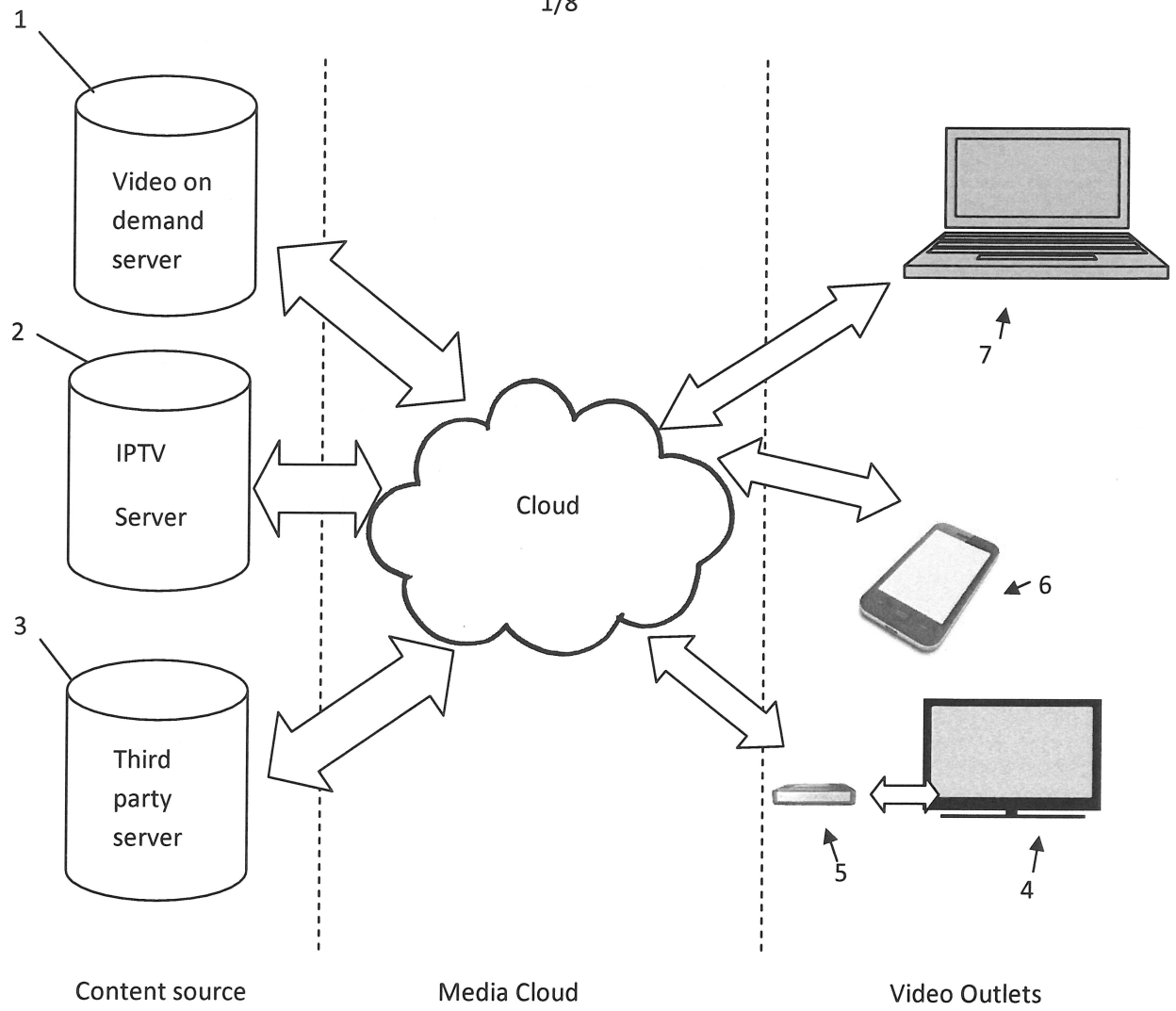


Fig. 1(a)

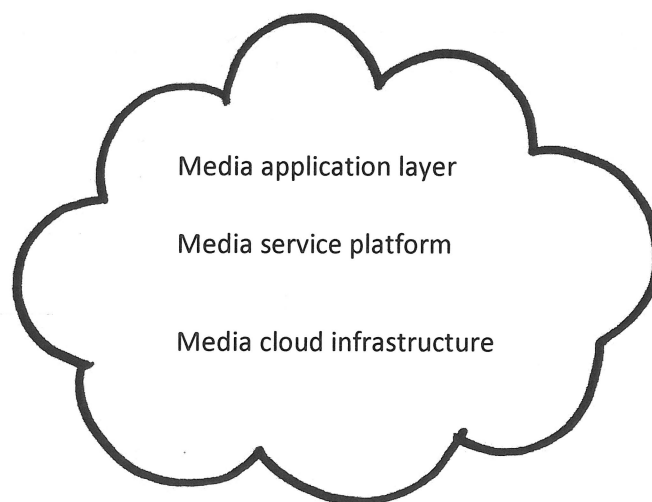


Fig. 1(b)

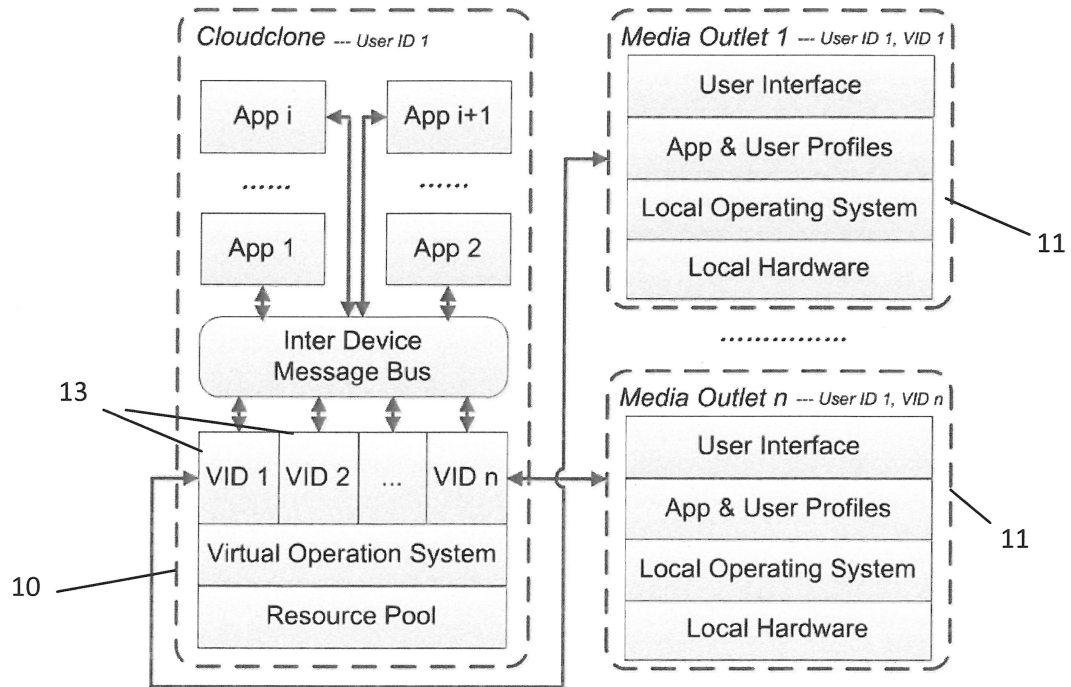


Fig. 2

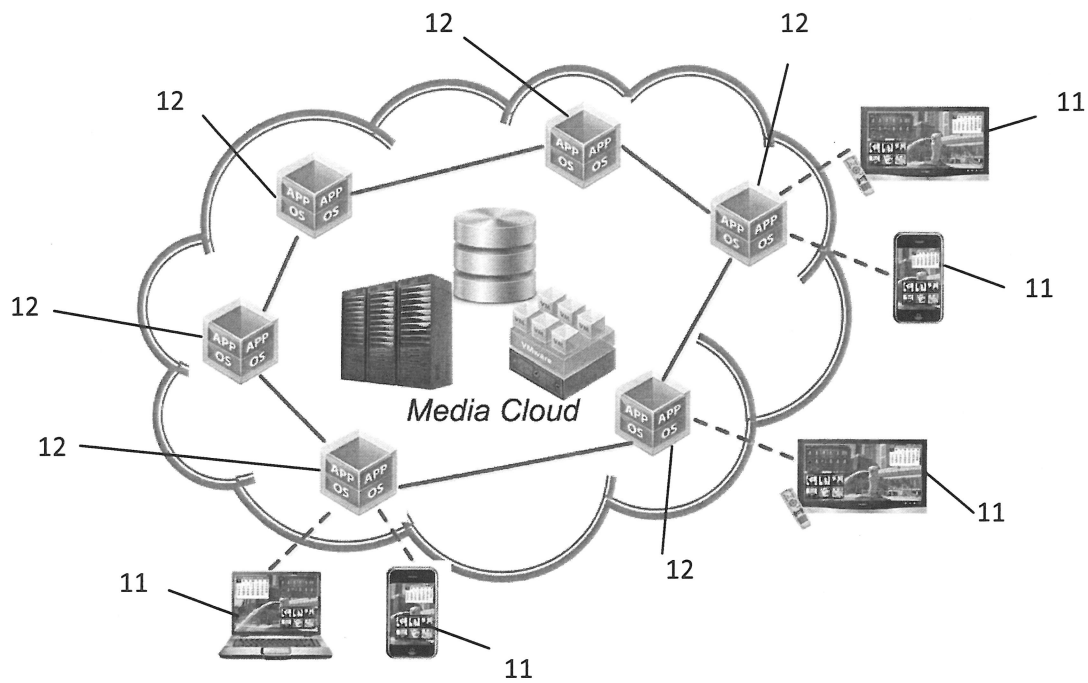


Fig. 3

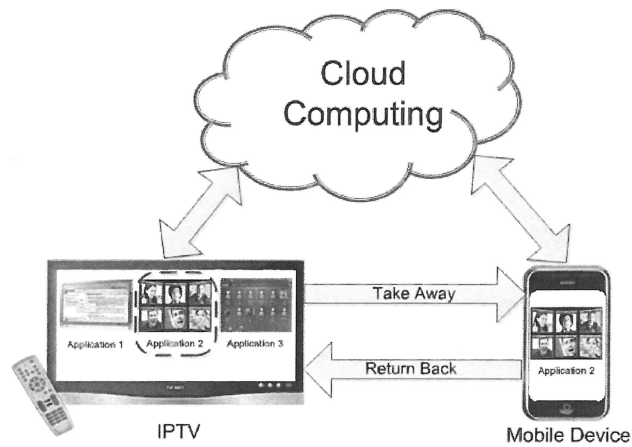


Fig. 4

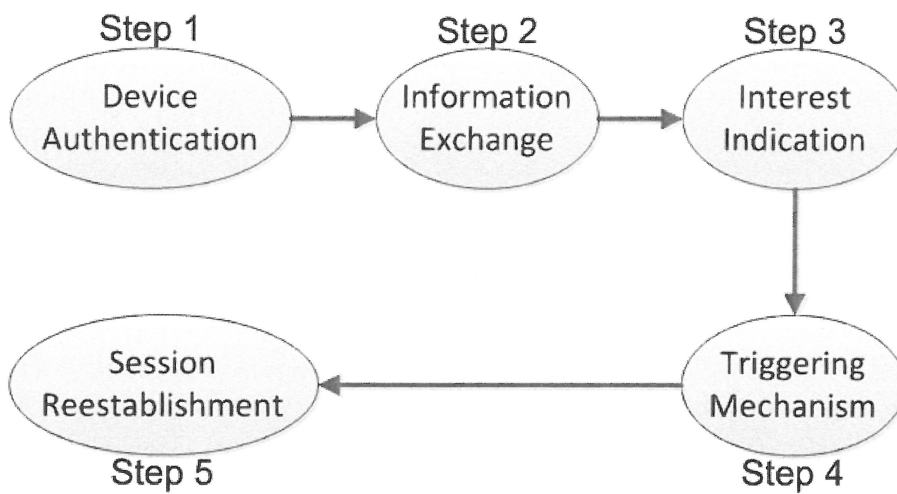


Fig. 5

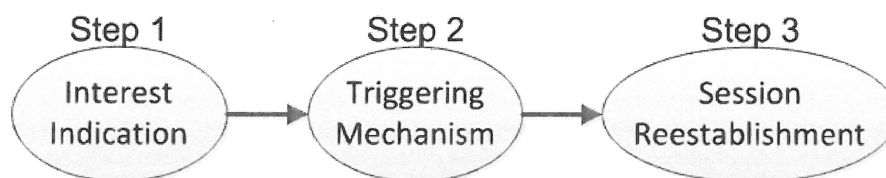


Fig. 6

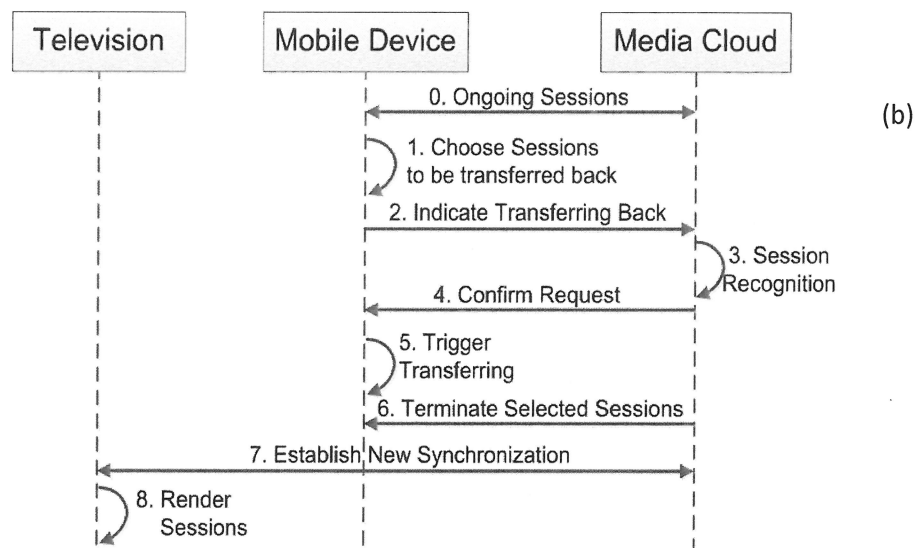
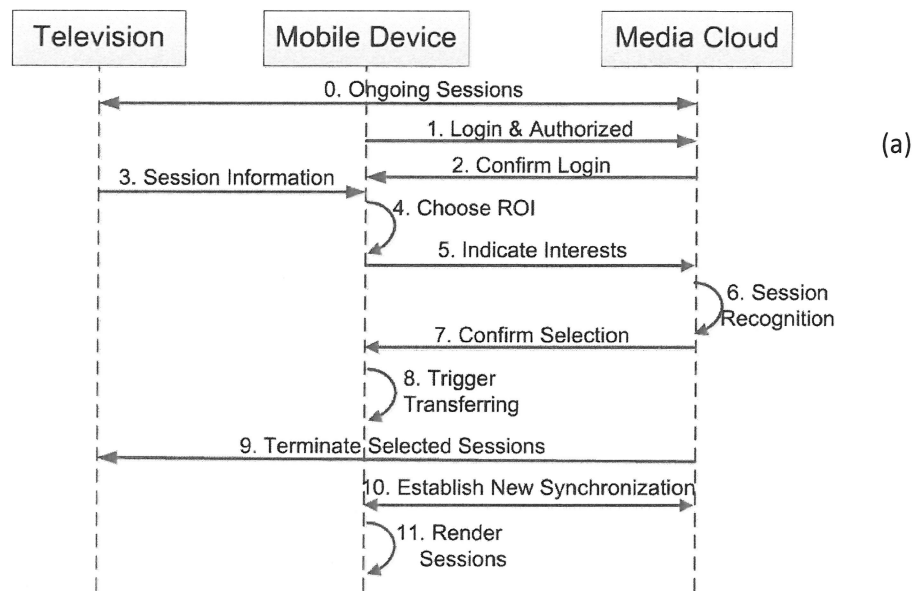
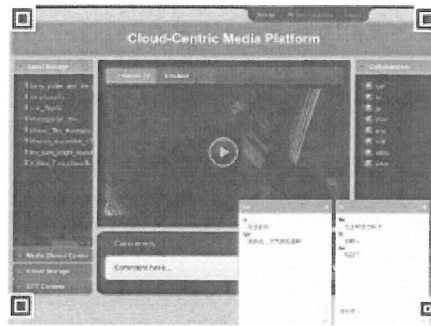
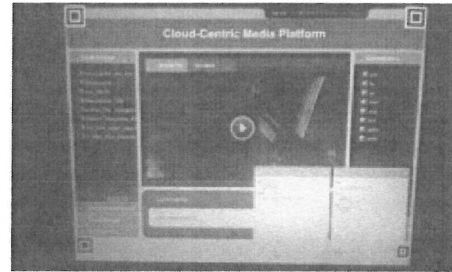


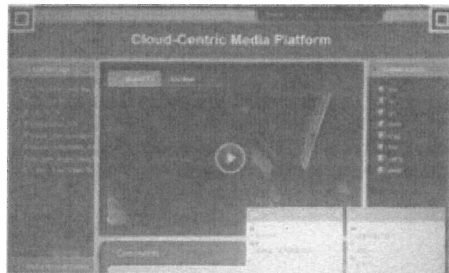
Fig. 7



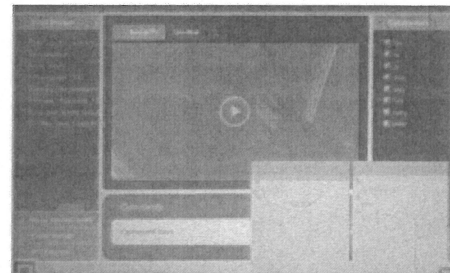
(a) The origin screen



(b) The screen edge detection



(c) The image after correction



(d) The ROI extraction

Fig. 8

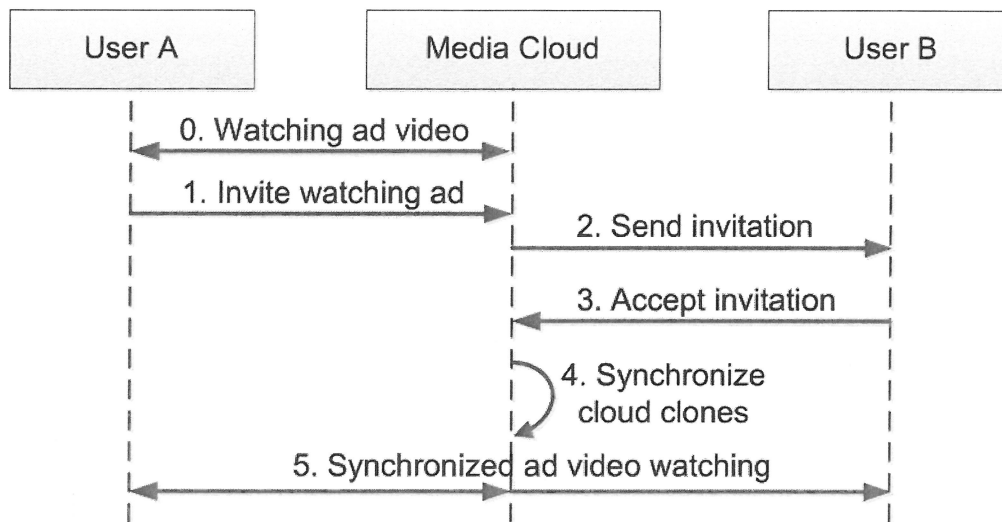


Fig. 9

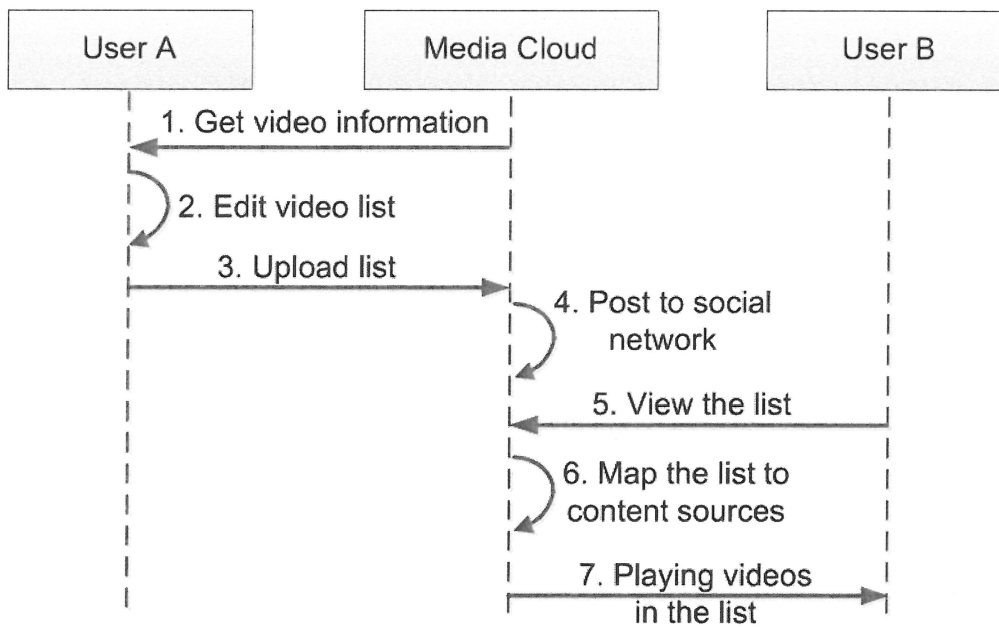


Fig. 10

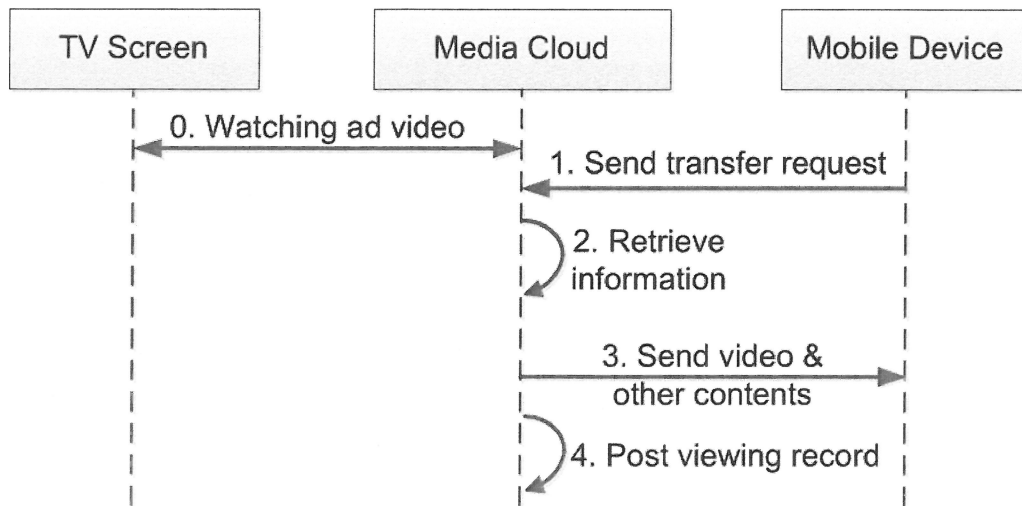


Fig. 11

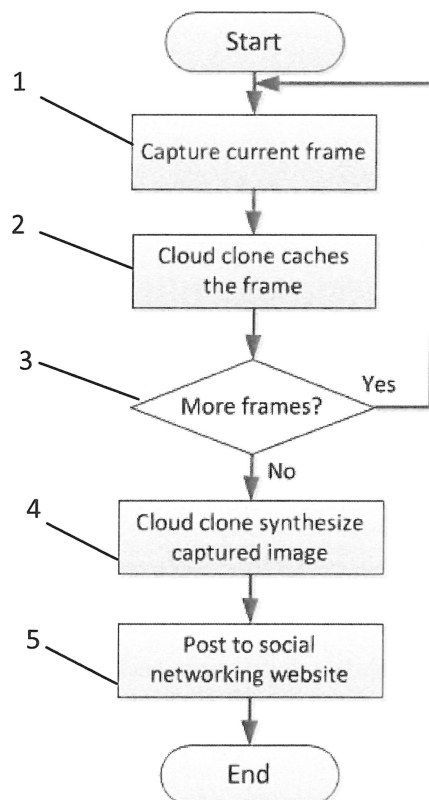


Fig. 12

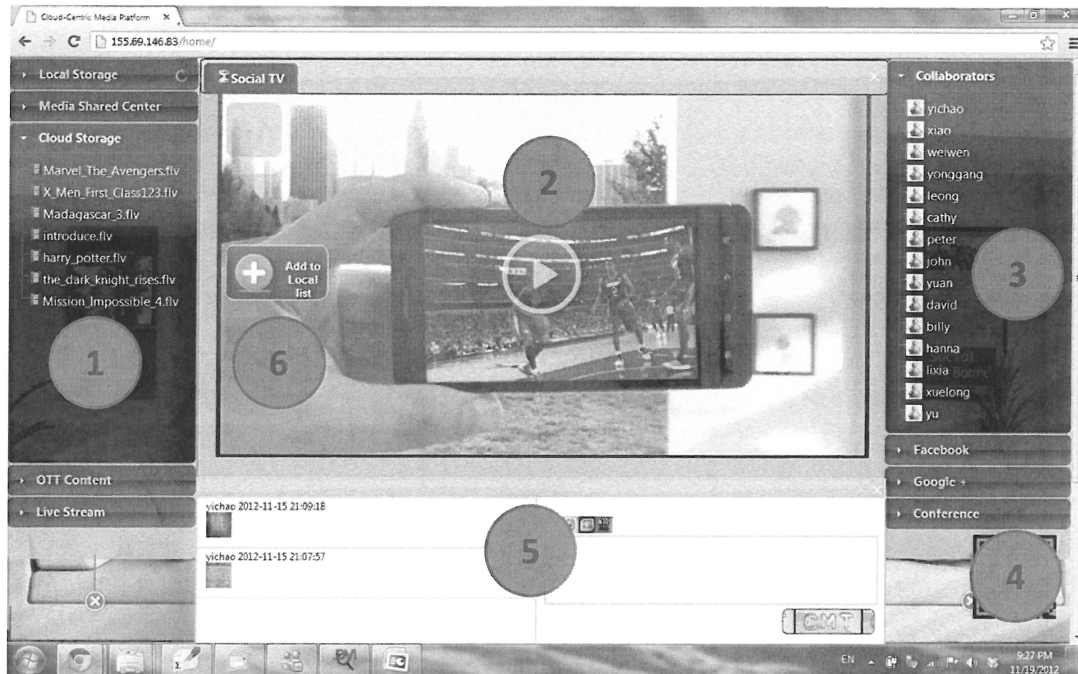


Fig. 13