process CH {
    Templates t, pending[1:n] = ([n] ∅);
    if pending[i] != ∅ then process i is blocked
    while (true) {
        receive match(t);  # get a new set of templates
        look at some template in t to determine sender s;
        for [ each template in t ] {
            if (there is a matching pair in some pending[i]) {
                if (s is the source) {
                    send reply[s](OUT, i);
                    send reply[i](IN, s);
                } else {  # s is the destination
                    send reply[s](IN, i);
                    send reply[i](OUT, s);
                }
                pending[i] = ∅;
                break;  # get out of the for loop
            }
        }
        if (no matching pair was found)
            pending[s] = t;
    }
}

Figure 10.8 Centralized clearing-house process.